



MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

**SUMMARY REPORT OF THE 73rd ANNUAL ACTUARIAL VALUATIONS
AS OF DECEMBER 31, 2018
FOR THE 745 DEFINED BENEFIT PLAN AND HYBRID PLAN MUNICIPALITIES**





September 19, 2019

The Retirement Board
Municipal Employees' Retirement System of Michigan
Lansing, Michigan

Ladies and Gentlemen:

This report presents a summary of the results of the 73rd Annual Actuarial Valuations, prepared as of December 31, 2018, for the Municipal Employees' Retirement System (MERS) 745 Defined Benefit Plan and Hybrid Plan municipalities. The report was prepared at the request of the Retirement Board and is intended for use by the Retirement System and those designated or approved by the Retirement Board.

MERS is an independent, professional retirement services organization that has partnered with Michigan municipalities for over 70 years. Each municipality in MERS is responsible for the employer contributions needed to provide benefits for its employees and former employees under the Michigan Constitution, the MERS Plan Document, and MERS' enabling legislation (Public Act 427 of 1984, as amended). The pension plan is a tax-qualified plan under section 401(a) of the Internal Revenue Code (most recent letter of Favorable Determination issued October 18, 2016).

The purpose of each municipality's December 31, 2018 annual actuarial valuation is to measure funding progress, to determine the employer contribution rates for the fiscal year beginning in 2020, provide information regarding the identification and assessment of risk, to determine the actuarial information for applicable Governmental Accounting Standards Board (GASB) Statements, and provide information to assist the local unit of government with State reporting requirements. The valuation assumed the continuing ability of the plan sponsors to make the contributions necessary to fund their respective plans. A determination regarding whether or not the plan sponsors are actually able to do so is outside the scope of this assignment and our area of expertise and was not performed.

The purpose of this summary report is to provide an overview of the results of the valuations of the individual municipalities. Note that the combined results for all municipalities are not indicative of the financial status of each municipality, since each entity stands on its own financially, with separately computed liabilities and contribution requirements. MERS is not funded on a combined basis. The information in this report should not be used to compare the results between various employers or to compare the results of an employer to the combined results. There are many factors that would make this type of a comparison of minimal value. This report also contains certain information that is required to be included in the MERS Comprehensive Annual Financial Report.

This report should not be relied on for any purpose other than the purpose described in this cover letter. This report may be provided by the Retirement System to other interested parties only in its entirety and only with the permission of the Retirement Board. Gabriel, Roeder, Smith & Company is not responsible for the consequences of unauthorized use of this report.

Information regarding the identification and assessment of risk is also included in this report. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

David T. Kausch, Rebecca L. Stouffer, and Mark Buis are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The valuations were based upon information furnished by MERS. In accordance with Actuarial Standards of Practice No. 23, the data was checked for internal and year to year consistency as well as general reasonableness, but was not audited. Gabriel, Roeder, Smith & Company does not assume responsibility for the accuracy or completeness of the provided data.

Our actuarial valuation was based on the following:

- The benefit provisions of MERS, as described on pages 4 - 14 of Appendix E which is on the MERS website at: [Appendix](#)
- Demographic data on the participants covered, as described in Section II. Financial information regarding plan assets, as described in Section III.
- The actuarial assumptions and funding methods adopted by the Retirement Board. See pages 15 - 34 of Appendix E on the MERS website at: [Appendix](#)

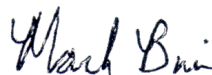
This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and in compliance with Act No. 427 of the Public Acts of 1984, as amended, and the MERS Plan Document as revised. The actuarial assumptions used for this valuation produce results that we believe are reasonable.

The signing actuaries are independent of the plan and plan sponsors. GRS maintains independent consulting agreements with certain local units of government for services unrelated to the actuarial consulting services provided to MERS in this report.


Respectfully Submitted,



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I. Results of the Actuarial Valuation

Overview

Our actuarial valuation of the liabilities and contribution rates for each of the 745 Defined Benefit Plan and Hybrid Plan participating municipalities in the Municipal Employees' Retirement System as of December 31, 2018 is based on four major elements:

1. The present benefit provisions of MERS, as governed by Act 220 of the Public Acts of 1996 and the MERS Plan Document, as revised, and various collective bargaining agreements (see Appendix E which is on the MERS website at: [Appendix](#)).
2. The characteristics of active and inactive MERS participants as of December 31, 2018 (see Section II).
3. The assets attributable to MERS participants of each participating municipality. The total assets (at actuarial value) for all 745 municipalities included in the December 31, 2018 valuation was \$9.8 billion. The market value of assets was \$9.0 billion.
4. The actuarial assumptions and funding method (see Appendix E which is on the MERS website at: [Appendix](#)). The results in this report reflect the assumptions and funding policy adopted by the Retirement Board in July 2015, including funding policy updates through February 28, 2019.

The employer contribution rate has been determined for each open municipality based on the entry age normal funding method. Under the entry age normal funding method, the total employer contribution is comprised of the normal cost plus the amortization payment required to fund the unfunded actuarial accrued liability over a period of years.

The total normal cost is, for each active participant, the level percentage of payroll contribution (from entry age to retirement) required to accumulate sufficient assets at the participant's retirement to pay for his or her projected benefit. The employer normal cost is the total normal cost reduced by the employee contribution rate. Closed municipalities (no longer actively participating in MERS) are covered by separate funding requirements.

The actuarial accrued liability represents the difference between the present value of all future benefits and the present value of future normal costs. The unfunded actuarial accrued liability (i.e., the actuarial accrued liability less assets accumulated as of the valuation date) is projected to the beginning of the fiscal year commencing in 2020, and is then amortized as noted in the [Appendix](#).

Each of these components of the employer contribution (i.e., normal cost and amortization payment) is shown separately for each municipality in Appendix C. For open divisions, we show estimated dollar contributions (based on projected payroll, but the actual required contribution for open divisions will be based on actual reported monthly pays during the fiscal year and will be different). For closed divisions, we show the dollar contributions that MERS will invoice, unless the division is linked to an open division and the employer has requested a blended contribution rate.

Within each municipality, an individual employer contribution is determined for each valuation group (division). The employer contribution requirement for each municipality is shown in Appendix C. The funded status of each municipality is shown in Appendix B.

The Annual Actuarial Valuation report for each individual municipality contains information regarding the identification and assessment of risk. Appendix D summarizes the risk measures for all municipalities.

Municipality Funded Status

One measure of a municipality's funding progress is the percentage of the dollar value of the actuarial accrued liability that is covered by the actuarial value of assets. The most recent MERS actuarial valuation is as of December 31, 2018. At that date 76 municipalities (10.2% of all Defined Benefit Plan and Hybrid Plan municipalities in MERS) were funded at 100% or higher. There were 604 municipalities in MERS that were funded at 60% or higher (81% of all municipalities).

Changes in Municipality Funding Percentages in 2018

Each municipality's plan is a standalone entity. Benefits are determined at the local level, each municipality is responsible for funding its own benefit provisions, and funded percentages vary between municipalities, as shown in Table 1 and Chart 5. Factors that affect the change in a municipality's funded percentage during 2018 include:

- Funding Policy - The MERS funding policy results in a gradual change in the funded percentage towards 100% funding.
- Investment Experience -
 - The 2018 valuations continue to phase-in the effect of the 2008 market losses, resulting in reduced funded percentages.
 - The actual return during 2018 was lower than the assumed rate of return resulting in reduced funded percentages. The impact of this lower than assumed rate of return is scheduled for recognition in the 2018 and following four valuations, absent offsetting positive experience in future years.
- Benefit Provision Changes - When a municipality's benefit provisions increase, the funded percentage usually decreases, and vice versa.
- Experience in Other Risk Areas (retirements, disabilities, withdrawals, pay increases, etc.) - Any material difference between what actually happened to participants in 2018 versus what the actuarial assumptions projected would happen will increase or decrease the funded percentage.
- Contributions in Excess of Minimum Requirements - Contributing more than the annual minimum required contribution would increase the municipality's funded percentage compared to what it would have been without the extra contribution.

The above list is not all inclusive. In addition, each municipality's funded status could be affected by a combination of these factors.

Comments on the Investment Markets

The actuarial value of assets, used to determine both municipalities' funded status and the required employer contributions, is based on a 5-year smoothed value of assets. Only a portion of each year's investment market losses or gains were recognized in the 2018 actuarial valuation reports. This reduces the volatility of the valuation results, which affects the required employer contributions and actuarial funded percentage.

As of December 31, 2018 the actuarial value of assets is 110% of market value. This means that meeting the actuarial assumption in the next few years will require average annual market returns that exceed the 7.75% assumed long-term investment return assumption.

If the current 10% difference between the actuarial value and market values of assets is not made up by greater than assumed investment returns in the future, employer contribution requirements may rise.

There are key differences between the data and figures used to calculate market performance in actuarial reports such as this, and a municipality's State of Fiduciary Net Position. The **Actuarial Rate of Return** is calculated on the actuarial value of assets and will differ from the actuarial **Market Rate of Return** due to the smoothing of historical returns. For plans across the country, the actuary generally computes a simplified estimate of the rate of return called Market Rate of Return assuming all contributions and benefits are paid in the middle of the year. The actuary's calculation under this method should not be used to assess investment performance since it is impacted by the timing of cash flows. Both the actuarial rate of return and the market rate of return are aggregated across all MERS plans system-wide and are a notional value which is not intended to be interpreted as an individual plan's rate of return.

MERS publishes an **Annualized Rate of Return** on their website [here](#). These figures are calculated by MERS external banking custodian and are annually audited. This calculation is generally calculated as a time-weighted return independent of the cash flows based on additional interim data (e.g., quarterly, monthly, or more frequent).

Year Ending December 31,	Actuarial Rate of Return <i>Smoothed</i> (Net of Expenses)	Market Rate of Return (Net of Expenses)	Annualized Rate of Return (Gross)
2016	5.14%	11.17%	11.10%
2017	6.08%	13.07%	13.40%
2018	3.80%	-4.12%	-3.51%

The actuary's calculations for MERS as a whole may be found in the [Appendix](#) to the Annual Actuarial Valuation. Note that calculations of rates of return for individual plans may differ from that of MERS as a whole since the plan's cash flows may differ proportionately from that of MERS as a whole.

Table 1: Summary of the Valuation Results

	December 31,		
	2018	2017	2016
Number of Participating Municipalities	729	727	720
Number of Closed Municipalities ¹	16	16	15
Total Defined Benefit and Hybrid Municipalities	745	743	735
Number of Valuation Divisions			
Open to new hires	1,154	1,320	1,279
Closed to new hires	1,796	1,520	1,389
Closed municipalities	20	20	19
Total	2,970	2,860	2,687
Total Active Participant Payroll (millions)	\$ 1,813	\$ 1,812	\$ 1,780
Assets at Market Value (millions)	\$ 8,956	\$ 9,439	\$ 8,483
Assets at Actuarial Value (millions)	9,808	9,545	9,136
Actuarial Rate of Return ²	3.80%	6.08%	5.14%
Actuarial Accrued Liability (millions)	\$ 14,424	\$ 14,095	\$ 13,680
Median AAL Funded Percentage ^{3,4} (based on actuarial value of assets)	73%	76%	74%
Number of Municipalities ⁴ :			
Under 60% Funded	141	144	153
60%-80% Funded	335	320	324
80%-100% Funded	193	194	177
100%+ Funded	76	69	66
Median Plan Maturity Risk Measures ³ :			
Ratio of Market Value of Assets over Payroll	4.4	N/A	N/A
Ratio of Actuarial Accrued Liability over Payroll	6.8	N/A	N/A
Ratio of Actives over Retirees and Beneficiaries	0.9	N/A	N/A
Ratio of Market Value of Assets over Benefit Payments	11.4	N/A	N/A
Ratio of Net Cash Flow over Market Value of Assets	-1.8%	N/A	N/A

¹ Closed municipalities have ceased participation in MERS, but MERS retains assets and liabilities for future benefit payments to their retirees and vested former participants.

² Refer to discussion on prior page for additional detail.

³ Average AAL Funded Percentage prior to 2018.

⁴ Excludes the closed municipalities prior to 2018.

There has been a change in actuary and actuarial software since the December 31, 2017 valuation. Throughout this report are references to valuation results generated prior to the 2018 valuation date. Select results prior to 2018 were received directly from the prior actuary.

II. Participant Characteristics as of December 31, 2018

Active Participants

The total number of defined benefit plan active participants decreased from 34,787 on December 31, 2017 to 33,891 on December 31, 2018.

The basic demographic characteristics of the active participants are shown below with comparative statistics for the past two years.

Item	December 31,		
	2018	2017	2016
Number of defined benefit plan active participants	33,891	34,787	34,843
Average age	45.7	45.8	45.9
Average benefit service	11.1	11.3	11.5
Average eligibility service ¹	11.9	12.0	12.2
Average compensation	\$ 53,488	\$ 52,102	\$ 51,084
Aggregate compensation (millions)	\$ 1,812.8	\$ 1,812.5	\$ 1,779.9

¹ Description can be found under Miscellaneous and Technical Assumptions in the Appendix.

Vested Former Participants

A vested former participant is a person who terminated employment after meeting their division's vesting schedule, with rights to a deferred benefit commencing at normal retirement age, or earlier if early (unreduced) retirement benefits have been adopted.

There were 8,605 former employees with deferred vested rights as of December 31, 2018. This compares to 8,361 such participants as of the prior valuation.

Item	December 31,		
	2018	2017	2016
Number of vested former participants ¹	8,605	8,361	8,252
Average age	50.0	50.0	50.0
Average annual deferred benefit	\$ 10,838	\$ 10,506	\$ 10,327

¹ Excludes terminated employees who are not vested. Any employee contributions still on deposit for such persons are reflected as a pending refund accrued liability.

Retirees and Beneficiaries

There were 41,350 retirees and beneficiaries receiving payments as of December 31, 2018. The table below presents age and benefit information as of the current valuation and for the past two years.

Item	December 31,		
	2018	2017	2016
Number of pensioners	41,350	40,148	38,774
Average age	69.6	69.4	69.2
Average annual benefit	\$ 21,982	\$ 21,588	\$ 21,216

Table 2: Defined Benefit and Hybrid Municipalities and Participants - Historical Comparison

Valuation Date Dec. 31,	No. of DB and Hybrid Municipalities	Active Participants				Vested Former Participants	
		Number	Annual Payroll	Average Pay	Percent Increase	Number	Annual Benefits
1980	334	29,528	\$ 399,413,360	\$ 13,527	12.0 %	432	
1985	342	29,659	544,238,433	18,350	4.9	641	
1990	381	32,256	725,691,155	22,498	4.5	1,261	
1995	490	35,611	972,975,649	27,322	3.3	2,322	
2000	560	36,573	1,225,992,204	33,522	3.7	5,303	
2004	615	36,766	1,437,211,517	39,091	5.2	5,804	\$ 40,567,372
2005	644	36,467	1,462,411,810	40,102	2.6	6,126	43,894,457
2006	668	36,846	1,545,886,480	41,955	4.6	6,235	46,110,745
2007	683	36,518	1,581,597,937	43,310	3.2	6,438	50,135,311
2008	692	36,092	1,624,855,145	45,020	3.9	6,662	54,141,539
2009	699	35,598	1,636,501,282	45,972	2.1	6,726	55,557,591
2010	715	35,816	1,683,983,258	47,018	2.3	6,961	60,836,793
2011	721	35,111	1,669,676,476	47,554	1.1	7,160	63,257,208
2012	726	34,187	1,640,390,877	47,983	0.9	7,262	66,638,525
2013	728	34,809	1,687,391,045	48,476	1.0	7,620	72,185,583
2014	728	35,302	1,743,799,124	49,397	1.9	7,690	77,919,750
2015	732	35,274	1,786,825,334	50,656	2.5	8,340	83,291,898
2016	735	34,843	1,779,919,980	51,084	0.8	8,252	85,220,062
2017	743	34,787	1,812,477,401	52,102	2.0	8,361	87,839,939
2018	745	33,891	1,812,758,776	53,488	2.7	8,605	93,258,513

Table 2 provides a historical comparison of the number of active and vested former participants included in the actuarial valuations, along with the number of Defined Benefit Plan and Hybrid Plan municipalities.

Table 3: Benefits Being Paid to Retirees and Beneficiaries - Historical Comparison

Valuation Date December 31,	Number of Retirees and Beneficiaries	Percent Increase in Retirees and Beneficiaries	Annual Retirement Allowances	Percent Increase in Retirement Allowances
1980	6,423	6.9 %	\$ 15,234,503	13.3 %
1985	8,343	5.6	27,747,190	13.9
1990	10,317	4.6	51,738,242	13.4
1995	13,032	4.3	102,010,673	11.8
2000	16,275	6.2	173,549,622	13.6
2004	19,271	4.5	262,221,987	10.8
2005	20,155	4.6	288,061,637	9.9
2006	21,464	6.5	322,522,645	12.0
2007	22,600	5.3	353,541,830	9.6
2008	23,832	5.5	391,959,046	10.9
2009	24,930	4.6	423,577,691	8.1
2010	26,930	8.0	481,476,493	13.7
2011	28,202	4.7	520,998,787	8.2
2012	29,739	5.4	565,478,715	8.5
2013	32,460	9.1	628,103,333	11.1
2014	35,754	10.1	723,077,656	15.1
2015	37,467	4.8	778,114,296	7.6
2016	38,774	3.5	822,640,812	5.7
2017	40,148	3.5	866,696,664	5.4
2018	41,350	3.0	908,941,059	4.9

Table 3 shows a historical comparison of the number of retirees and beneficiaries and the annual benefits paid to retirees and beneficiaries, together with various ratios.

Chart 1: MERS Growth

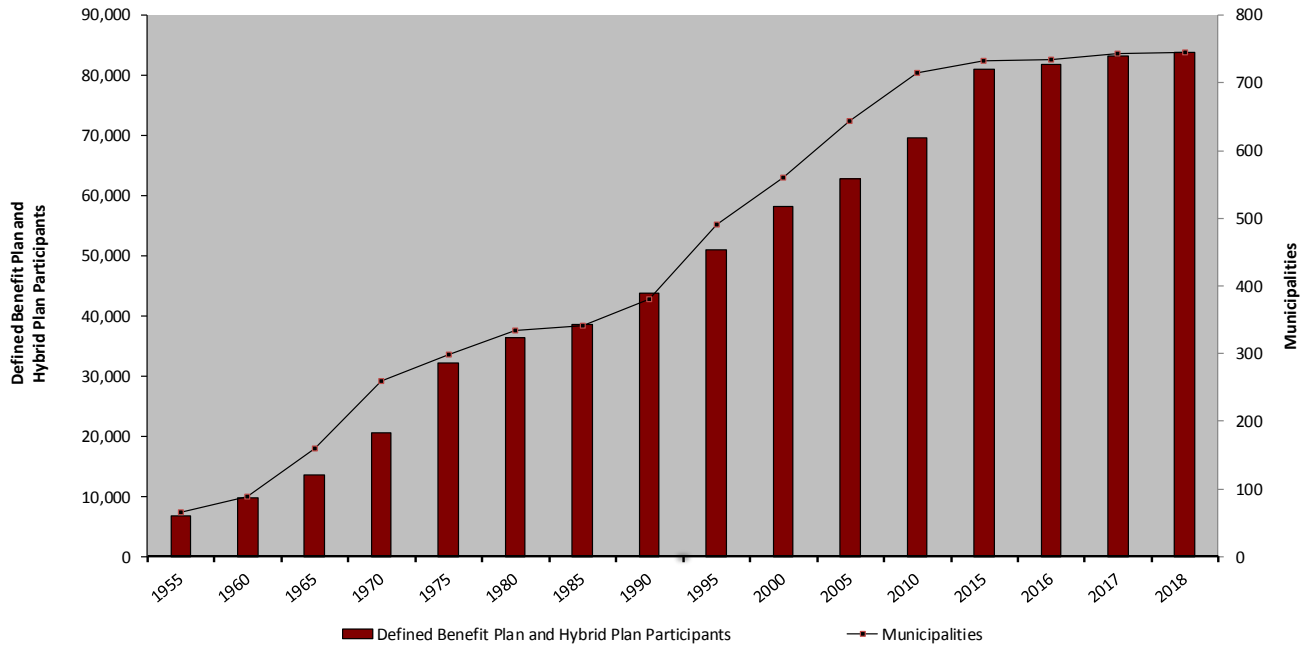


Chart 1 presents a comparison of the growth in MERS Defined Benefit Plan and Hybrid Plan municipalities to the growth in plan participants (active participants, vested former participants, and retirees and beneficiaries).

Chart 2: Active and Retired Participants

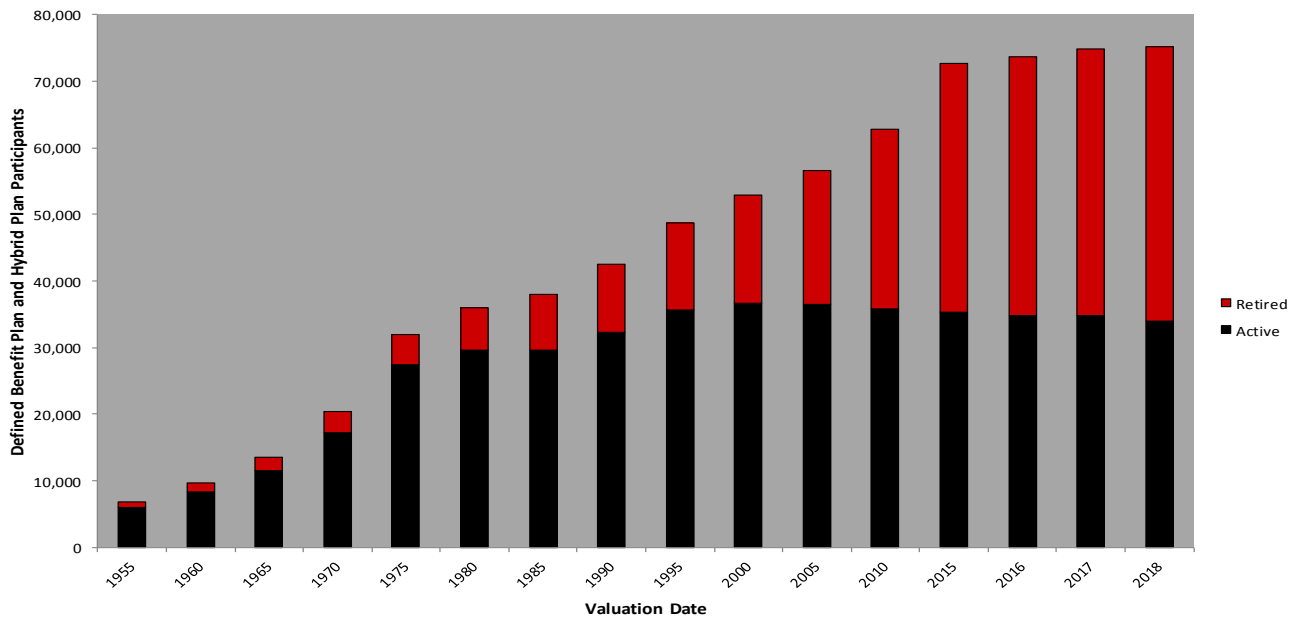


Chart 2 illustrates graphically the historical growth in the number of active participants and retirees and beneficiaries.

Chart 3: Active Participants Per Pension Recipient

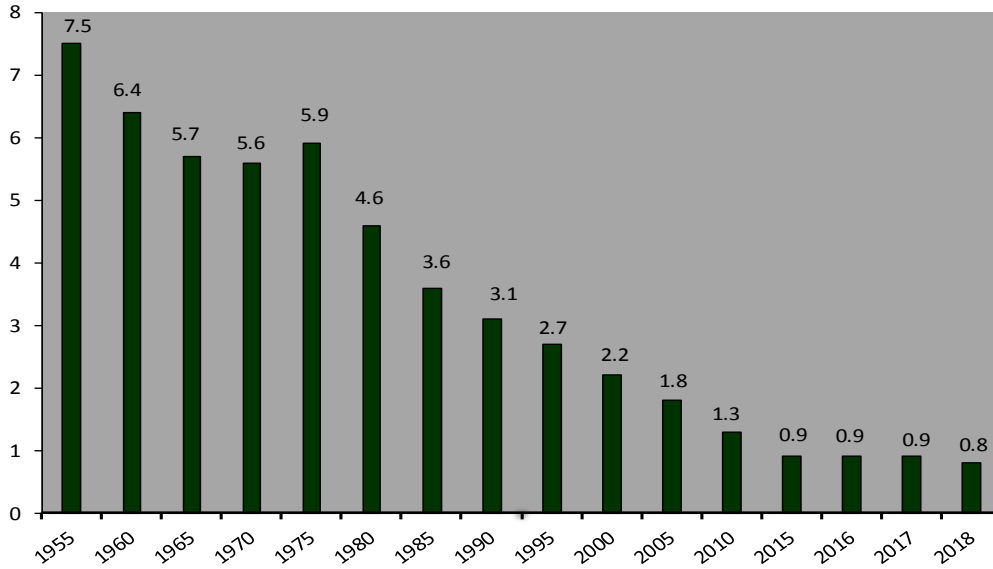
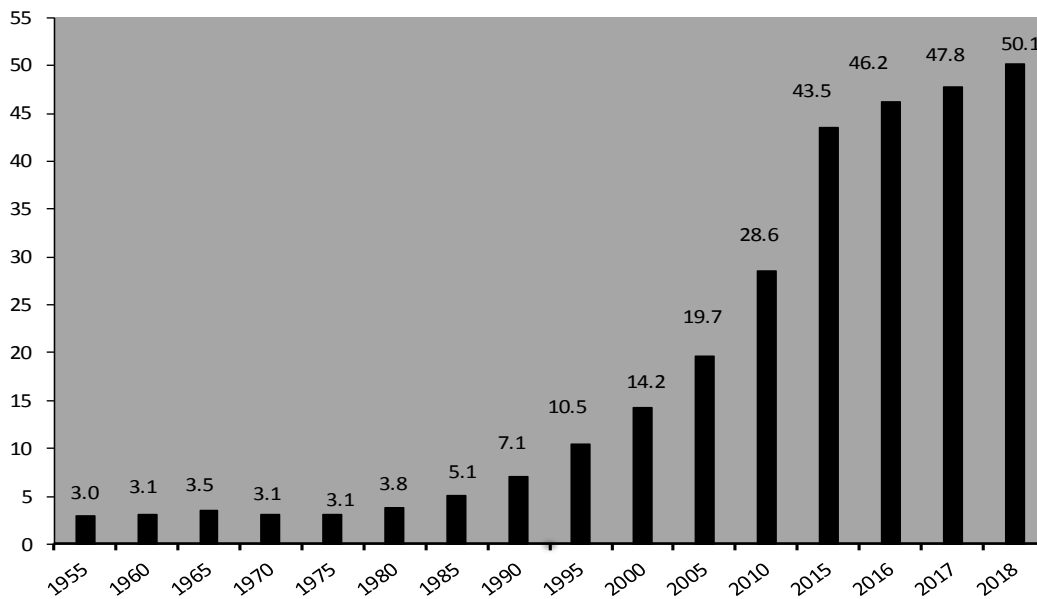


Chart 4: Retiree Benefits as a Percent of Active Pay



Charts 3 and 4 illustrate how MERS has matured over the years. Over time the number of active participants per retiree has declined from over 7 to just under 1. This ratio is expected to temporarily dip further below 1, due to employee divisions that are closed to new hires, but then eventually stabilize around 1. The benefit payout as a percentage of active payroll has increased to over 50%.

Active Detail as of December 31, 2018

Table 4: Number and Average Pay of Participants in Active Service by Age and Years of Benefit Service

Age	Total	Years of Benefit Service						
		0-4	5-9	10-14	15-19	20-24	25-29	30 & Over
Total	33,891	12,299	5,693	4,663	4,727	3,679	1,709	1,121
	\$ 53,488	\$ 44,529	\$ 54,115	\$ 57,511	\$ 59,783	\$ 62,199	\$ 63,616	\$ 61,286
Under 20	76	76						
	\$ 21,951	\$ 21,951						
20-24	1,178	1,166	12					
	\$ 36,588	\$ 36,555	\$ 39,797					
25-29	2,808	2,404	386	18				
	\$ 45,048	\$ 44,240	\$ 49,847	\$ 50,041				
30-34	3,237	1,951	958	316	12			
	\$ 50,582	\$ 46,270	\$ 57,266	\$ 56,352	\$ 66,099			
35-39	3,728	1,519	836	948	403	22		
	\$ 55,038	\$ 46,877	\$ 56,873	\$ 63,754	\$ 60,691	\$ 69,706		
40-44	4,211	1,263	733	794	1,030	380	11	
	\$ 57,382	\$ 46,442	\$ 56,348	\$ 61,481	\$ 65,436	\$ 65,281	\$ 59,576	
45-49	5,341	1,281	773	729	1,073	1,185	291	9
	\$ 58,518	\$ 46,092	\$ 53,949	\$ 58,431	\$ 63,482	\$ 67,543	\$ 70,067	\$ 73,207
50-54	5,159	1,105	744	671	850	930	624	235
	\$ 55,979	\$ 44,868	\$ 53,362	\$ 55,502	\$ 57,834	\$ 62,344	\$ 65,461	\$ 60,807
55-59	4,513	866	632	623	744	720	478	450
	\$ 53,901	\$ 45,673	\$ 52,042	\$ 52,335	\$ 55,054	\$ 56,781	\$ 60,236	\$ 61,275
60-64	2,696	485	447	388	488	346	235	307
	\$ 51,887	\$ 44,526	\$ 49,507	\$ 50,122	\$ 52,677	\$ 53,742	\$ 57,707	\$ 61,411
65 & Over	944	183	172	176	127	96	70	120
	\$ 49,208	\$ 38,839	\$ 47,825	\$ 47,288	\$ 47,260	\$ 52,029	\$ 63,901	\$ 61,052

Table 4 shows the distribution of active participants by age and service and includes information on average compensation.

Retiree and Beneficiary Detail as of December 31, 2018

Table 5: Tabulated by Attained Ages

Age	Number
Under 50	571
50 - 54	1,168
55 - 59	3,281
60 - 64	8,444
65 - 69	9,733
70 - 74	7,174
75 - 79	4,760
80 - 84	3,071
85 - 89	1,904
90 - 94	914
95 - 99	217
100 & Over	25
Certain Only ¹	88
Total	41,350

¹ These are beneficiaries of deceased retirees who had elected term certain and life options. The beneficiaries receive benefits until the end of the term certain period.

Table 6: Tabulated by Average Annual Pension by Year of Retirement²

Year of Retirement	Number	Average Annual Pension
Before 1960	1	\$ 1,337
1960 - 1969	17	5,540
1970 - 1979	240	8,174
1980 - 1989	1,812	11,403
1990 - 1999	6,289	18,366
2000 - 2009	13,641	23,567
2010 - 2018	19,350	23,217
Total	41,350	21,982

² As new divisions with existing retirees and beneficiaries join MERS, the year of retirement is set equal to the year the division joins MERS. This skews the number of retirees and beneficiaries as well as the average annual pension in years when this occurs.

Retiree and Beneficiary Detail as of December 31, 2018

Table 7: Allowances Being Paid: Tabulated by Type of Benefit

Type of Benefit	Number of Retirees	Number as a Percent of Total	Total Monthly Benefits
Normal Retirement for age and service	33,895	82.0 %	\$ 66,789,613
Non-Duty Disability ¹	1,185	2.9	1,628,743
Duty Disability ¹	591	1.4	1,085,888
Beneficiaries ²	4,810	11.6	5,254,321
Non-Duty Death	817	2.0	931,771
Duty Death	52	0.1	54,752
Totals	41,350	100.0 %	\$ 75,745,088

¹ At age 60, these benefit types are converted to normal retirement for age and service.

² Includes EDRO alternate payees.

Table 8: Allowances Being Paid: Tabulated by Optional Form of Benefit

Type of Benefit	Number of Retirees	Number as a Percent of Total	Total Monthly Benefits
Beneficiary draws 100% of retiree's benefit	12,915	31.2 %	\$ 24,812,287
Beneficiary draws 67% of retiree's benefit	3	0.0	12,816
Beneficiary draws 75% of retiree's benefit	2,787	6.7	6,926,365
Beneficiary draws 60% of retiree's benefit	413	1.0	1,489,100
Beneficiary draws 50% of retiree's benefit	5,946	14.4	12,752,879
Equated Option (changing at Social Security age)	375	0.9	360,384
5 year certain and life	323	0.8	521,882
10 year certain and life	818	2.0	1,584,374
15 year certain and life	247	0.6	400,747
20 year certain and life	531	1.3	789,012
Straight life allowance	16,992	41.1	26,095,242
Totals	41,350	100.0 %	\$ 75,745,088

Provision Detail as of December 31, 2018

**Table 9: Valuation Divisions Tabulated by Valuation Year and Benefit Formula
(Prior to 2018: Excludes Select Divisions)**

Benefit Formula	Number of Divisions with Benefit on December 31,		
	2018	2017	2016
Flat Multiplier (Max varies)			
Less than 1.50%	39	37	35
1.50% to less than 1.75%	230	219	208
1.75% to less than 2.00%	6	3	1
2.00% to less than 2.25%	410	391	384
2.25% to less than 2.50%	550	549	546
2.50% to less than 2.75%	881	898	906
2.75% and above	74	74	75
Tiered Multiplier (Max varies)			
By Service	35	33	31
By Age	46	47	49
By FAC	21	21	21
Other			
Frozen Benefits (Incl. Optional Freeze)	13	11	9
Old Plan Benefits	44	24	24
Other	0	0	1
Surplus Division	194	0	0
Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)			
Less than 1.50%	0	0	0
1.50% to less than 1.75%	6	6	6
1.75% to less than 2.00%	0	0	0
2.00% to less than 2.25%	16	16	15
2.25% to less than 2.50%	22	20	18
2.50% to less than 2.75%	102	75	49
2.75% and above	13	10	9
Tiered Multiplier	18	14	11
Frozen Benefits	19	19	19
Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)			
Less than 1.50%	1	1	1
1.50% to less than 1.75%	2	1	1
1.75% to less than 2.00%	1	1	1
2.00% to less than 2.25%	1	1	1
2.25% to less than 2.50%	7	6	6
2.50% to less than 2.75%	9	9	6
2.75% and above	9	9	8
Tiered Multiplier	3	4	3
Hybrid Plan			
1.00% Multiplier	56	53	49
1.25% Multiplier	57	54	54
1.50% Multiplier	77	69	65
1.75% Multiplier	4	4	4
2.0% Multiplier	2	2	1
Frozen Benefits	2	0	0

Benefit Formula	Number of Divisions with Benefit on December 31,		
	2018	2017	2016
Subtotals			
Flat Multiplier (Max varies)	2,190	2,171	2,155
Tiered Multiplier (Max varies)	102	101	101
Other	251	35	34
Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)	196	160	127
Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)	33	32	27
Hybrid Plan	198	182	173
Total Divisions	2,970	2,681	2,617

Table 9 shows the distribution of benefit provisions in effect for the 2018 and past two valuations. MERS is a multiple-employer plan, where each municipality decides its benefit structure.

**Table 10: Additional Benefit Programs
(Excludes the Divisions of Closed municipalities - see Table 1)**

Benefit Program (Required)	No. of Divisions	Benefit Program (Optional)	No. of Divisions	Benefit Program (Optional)	No. of Divisions
Normal Retirement		Unreduced Retirement (Age and Service)		COLA for Existing Retirees	
50	5	49/20	1	0.50% (Non-Compound)	1
52	3	50/20	3	2.00% (Non-Compound)	1
55	46	50/25	476	2.50% (Non-Compound)	287
58	7	50/28	1	2.00% (Compound)	25
59	2	50/30	6	2.00% (Compound): Years 6-10	1
60	2,662	52/25	1	2.00% (Compound; CPI Limit)	1
62	5	53/25	6	3.00% (Compound)	5
65	2	55/10	10	CPI (Compound; 3% Limit) to Age 65	2
Old Plan Benefits	44	55/15	345	CPI (Compound; 4% Limit)	1
Surplus	194	55/20	257	\$300 Annual Flat Dollar	1
		55/25	742	Varies	3
Early (Reduced) Retirement		Unreduced Retirement (Service)		COLA for Future Retirees	
0/25 or 55/10	1	6 & out	1	0.50% (Non-Compound)	1
50/25 or 55/10	6	20 & out	23	1.00% (Non-Compound)	8
50/25 or 55/15	1,589	21 & out	1	1.50% (Non-Compound)	1
52/25 or 57/15	5	22 & out	4	2.00% (Non-Compound)	4
55/25 or 60/15	2	23 & out	5	2.50% (Non-Compound)	695
50/25	255	25 & out	157	2.50% (Non-Compound) commencing at age 54	2
55/10	6	30 & out	13	1.00% (Compound)	1
55/15	515			2.00% (Compound)	24
None	353			Bridged COLA	
Old Plan Benefits	44			2.50% (Non-Compound) before, 0.00% after	12
Surplus	194				
Vesting		Unreduced Retirement (Points)		D2 Provisions	
3 years	1	Rule of 65	2	D2 (25%)	82
5 years	33	Rule of 80	1	D2 (50%)	4
6 years	638	Rule of 85	6	D2 (55%)	1
7 years	3			D2 (67%)	18
8 years	225			D2 (70%)	11
10 years	1,816			D2 (50% Dth; 67% Dsb)	1
15 years	16			D2 (67% Dth; 50% Dsb)	17
Old Plan Benefits	44	Survivor Provisions		D2 No Svc Proj	17
Surplus	194	RS 50%	157		
		RS 60%	23	Disability and Death Provisions	
		RS 100%	1	DD 50% FAC Min	2
		RS 75%	2	DD 80% FAC Min	1
		Sub. 75%	15	Dty Dsb 65% FAC Min	1
FAC Period		Other Provisions		Non Dty Dsb 25% FAC Min	6
2 years	13	PRO	1	Non Dty Dsb 55% FAC Min	1
3 years	1,281	SLIF	55	NDD15% FAC Min	17
4 years	3	AWD TBill	31	NDD25% FAC Min	6
5 years	1,413	AWD (Valuation Interest Rate)	5	NDD55% FAC Min	1
2 out of 10	1	DROP+ 4%	2	NDD/Dsb Elg: 1 year	6
3 out of 10	4	DROP:Traditional	1	Non Dty Dsb Elg: 5 years	2
5 out of 10	6	Max \$ FAC	3	Non Dty Dsb Elg: 10 years	10
3 out of 5	11	Late Retirement	4	Dty Dsb: Alt Svc Proj	5
Old Plan Benefits	44	Deferred GrowNRD	11	Non Dty Dsb: Svc Proj	2
Surplus	194	Deferred Other	1		

Table 10 shows the distribution of Additional Benefit Programs in effect (by division) for the 2018 valuations. MERS is a multiple-employer plan, where each municipality decides its benefit structure.

III. Actuarial Value of Assets

For actuarial valuation purposes, the actuarial value of assets is determined on the basis of a valuation method that assumes the fund earns the expected rate of return (7.75% beginning with calendar year 2016), and includes an adjustment to reflect market value. This procedure was instituted for the December 31, 2005 valuation and further modified with the 2015 experience study, and is applied as follows:

- (i) Preliminary value is determined by taking the sum of the actuarial value at the beginning of the year and the excess of income over expenses during the year, assuming that the fund earns the assumed rate during the year.
- (ii) This value is written-up or written-down by recognizing 20% of the current year's difference between actual and expected return and 20% of that difference for the 4 prior years. Actual return for the year includes interest, dividends, realized and unrealized gains or losses, net of administrative and investment expenses.

The cumulative difference between the market value and valuation assets as of December 31, 2016 will be recognized over 4 years.

For the December 31, 2018 valuation, this procedure produced an actuarial asset value that is equal to 109.53% of market value. The table below shows a brief historical comparison of this ratio.

<u>Valuation Year</u>	<u>Actuarial Asset Value as a % of Market Value</u>
2018	109.53%
2017	101.13%
2016	107.71%
2015	113.54%
2014	105.99%

On page 34 of Appendix E (on the MERS website at: [Appendix](#).) we have illustrated the development of the actuarial value of assets for the December 31, 2016 through December 31, 2018 actuarial valuations. The market value of assets reported to the actuary includes most accounts receivables.

IV. Employer Contributions and Funded Status as of December 31, 2018

**Table 11: Computed Employer Contribution Rates
(Excludes Closed Divisions, Shadow Division, and Closed Municipalities - see Table 1)**

Benefit Formula	Contributory Groups			Non-Contributory Groups		Total Groups	
	No. of Divisions	Member Contrib. Avg. %	Employer Contrib. Avg. %	No. of Divisions	Employer Contrib. Avg. %	No. of Divisions	Employer Contrib. Avg. %
Flat Multiplier (Max varies)							
Less than 1.50%	14	4.96%	0.32%	14	6.44%	28	0.67%
1.50% to less than 1.75%	125	4.35%	4.90%	36	8.12%	161	5.31%
1.75% to less than 2.00%	3	6.17%	2.40%	1	7.06%	4	3.84%
2.00% to less than 2.25%	151	4.45%	9.03%	59	14.09%	210	10.37%
2.25% to less than 2.50%	135	5.38%	16.77%	49	16.63%	184	16.73%
2.50% to less than 2.75%	183	7.11%	19.89%	56	34.55%	239	22.03%
2.75% and above	20	9.03%	31.77%	2	27.60%	22	31.66%
Tiered Multiplier (Max varies)							
By Service	14	8.63%	22.57%	0	0.00%	14	22.57%
By Age	12	4.75%	11.03%	4	14.57%	16	11.34%
By FAC	4	1.37%	5.77%	3	6.64%	7	5.83%
Bridged Benefit (Frozen FAC; Grouped on Pre-Bridge Multiplier)							
Less than 1.50%	0	0.00%	0.00%	0	0.00%	0	0.00%
1.50% to less than 1.75%	5	5.00%	4.36%	1	0.00%	6	4.25%
1.75% to less than 2.00%	0	0.00%	0.00%	0	0.00%	0	0.00%
2.00% to less than 2.25%	8	2.73%	8.75%	1	15.92%	9	8.83%
2.25% to less than 2.50%	5	6.27%	33.26%	0	0.00%	5	33.26%
2.50% to less than 2.75%	25	7.08%	17.03%	1	19.10%	26	17.12%
2.75% and above	4	8.94%	137.00%	0	0.00%	4	137.00%
Tiered Multiplier	2	1.00%	13.49%	0	0.00%	2	13.49%
Bridged Benefit (Termination FAC; Grouped on Pre-Bridge Multiplier)							
Less than 1.50%	1	9.14%	7.00%	0	0.00%	1	7.00%
1.50% to less than 1.75%	1	4.00%	0.00%	0	0.00%	1	0.00%
1.75% to less than 2.00%	0	0.00%	0.00%	0	0.00%	0	0.00%
2.00% to less than 2.25%	1	6.00%	8.15%	0	0.00%	1	8.15%
2.25% to less than 2.50%	2	6.00%	22.11%	0	0.00%	2	22.11%
2.50% to less than 2.75%	4	4.85%	15.81%	0	0.00%	4	15.81%
2.75% and above	1	17.00%	28.30%	0	0.00%	1	28.30%
Tiered Multiplier	0	0.00%	0.00%	1	0.00%	1	0.00%
Hybrid Plan							
1.00% Multiplier	0	0.00%	0.00%	51	4.75%	51	4.75%
1.25% Multiplier	0	0.00%	0.00%	51	4.72%	51	4.72%
1.50% Multiplier	1	1.76%	5.00%	66	7.74%	67	7.74%
1.75% Multiplier	0	0.00%	0.00%	4	7.78%	4	7.78%
2.00% Multiplier	0	0.00%	0.00%	2	9.23%	2	9.23%
Total	721	5.79%	13.45%	402	11.81%	1,123	12.95%

Table 11 provides a distribution of average employer and employee contribution rates by type of benefit program. This information is shown on a divisional basis. MERS is a multiple-employer plan, where each municipality decides its benefit structure.

Chart 5: Distribution of Funded Percentage of Actuarial Accrued Liability

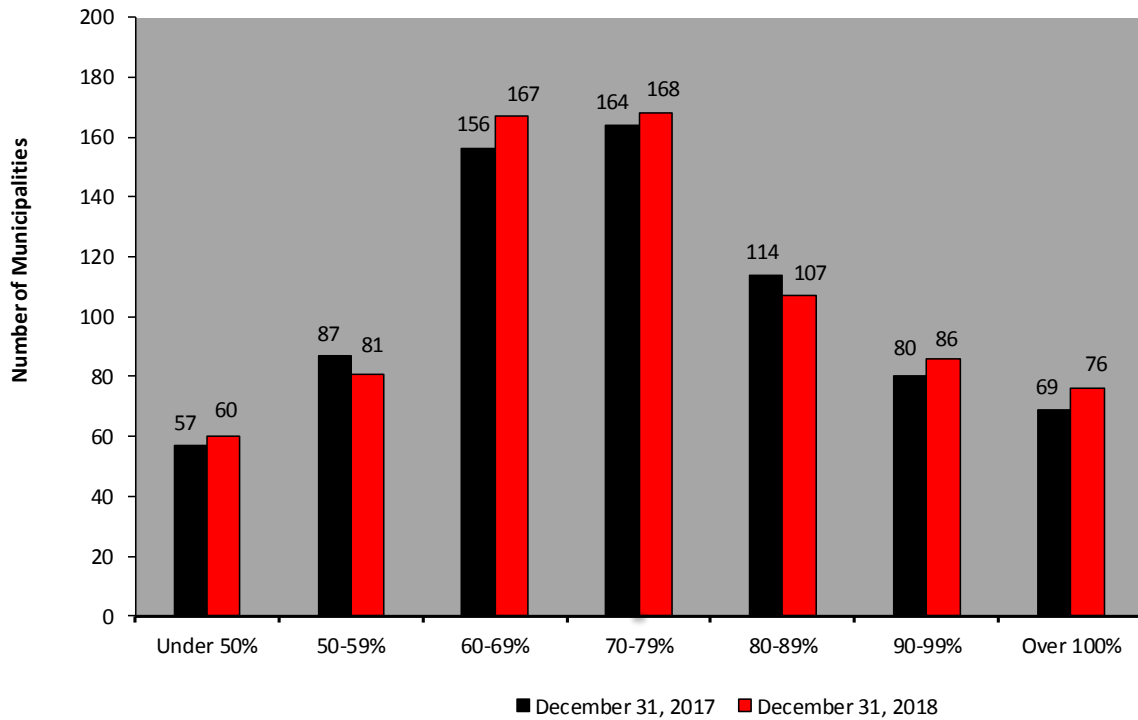


Chart 5 provides a distribution of the municipalities by funded percentage of the entire municipality, comparing the 2018 and 2017 valuation years. As of December 31, 2018:

- 604 municipalities are funded at 60% or higher. This represents 81% of all municipalities.
- 76 municipalities are funded at 100% or more. The median funded percentage is 73% in 2018 and 73% in 2017.

This distribution includes municipalities, 745 as of December 31, 2018 and 743 as of December 31, 2017.

Chart 6: Distribution of Municipality Divisions by Employer Contribution Rate

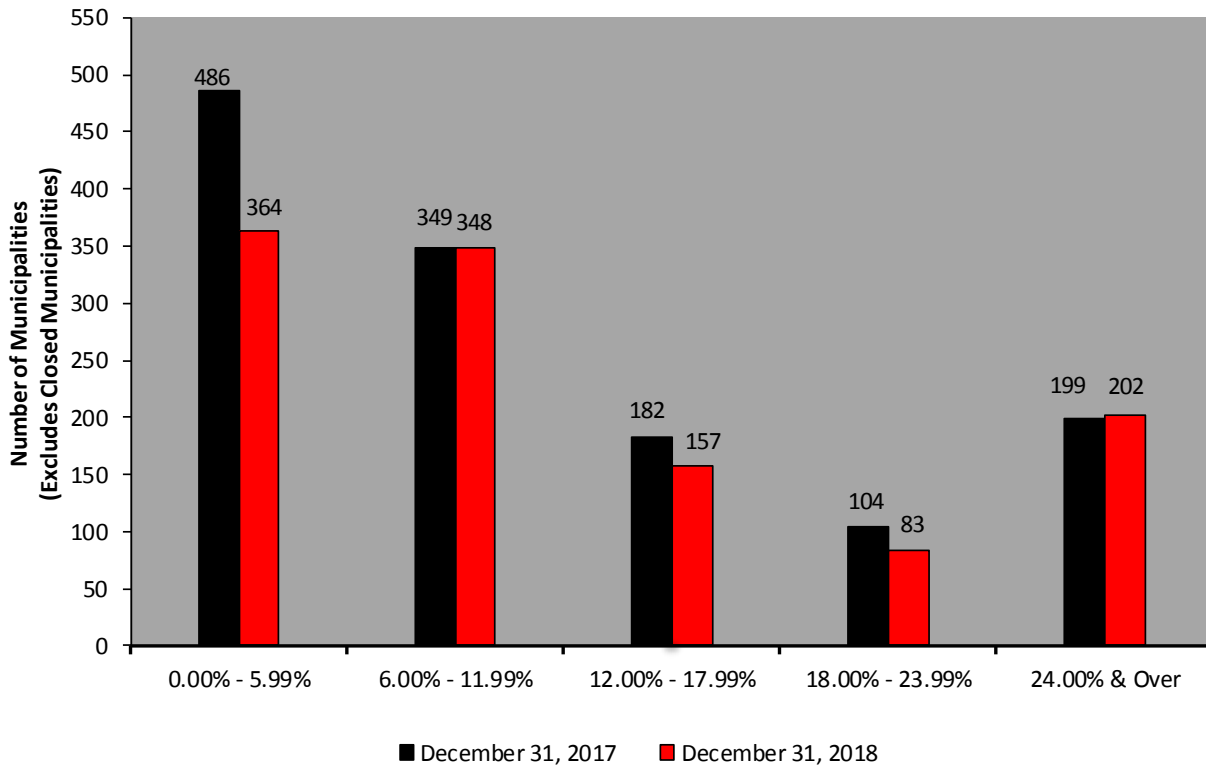


Chart 6 provides a distribution of divisions by employer contribution rate (as a percentage of payroll) for divisions that are open to new hires, comparing 2018 and 2017. Note that:

- The median employer contribution rate, for all open divisions, is 9.16% in the 2018 valuations, compared to 8.44% in the 2017 valuations.
- Employer contribution rates vary between divisions as a result of differences in demographics, benefit provisions, and cost-sharing arrangements.
- The divisions with very high employer contribution rates are generally small divisions that have experienced a decline in the number of active employees (unfunded liabilities are then spread over a smaller payroll, leading to a higher contribution rate).

V. Employer Risk Measures as of December 31, 2018

Overview

Determination of the accrued liability, the employer contribution, and the funded ratio requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability, the actuarially determined contribution and the funded ratio that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

- **Investment Risk** – actual investment returns may differ from the expected returns;
- **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
- **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- **Longevity Risk** – participants may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
- **Other Demographic Risks** – participants may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example, if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

Plan Maturity Metrics

All retirement plans have a life-cycle. A simple example is of a single individual saving for retirement. Early on in the individual's career, he or she generally starts with little to no assets set aside for retirement. Retirement savings accumulate during the individual's career and may reach their highest point right before retirement. Once the individual retires, retirement assets are drawn down over his or her remaining lifetime.

Defined benefit or hybrid plans generally cover several individuals at various points in their lives. Plan maturity for defined benefit and hybrid plans may be measured in many different ways. Risks facing a pension plan evolve with plan maturity. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of participants in pay status and a significant trust may be much more exposed to investment risk.

The December 31, 2018 annual actuarial valuation (AAV) reports for each participating MERS employer include several measures of plan maturity:

- The ratio of the market value of assets to payroll,
- The ratio of actuarial accrued liability to payroll,
- The ratio of actives to retirees and beneficiaries,
- The ratio of market value of assets to benefit payments, and
- The ratio of net cash flow as a percentage of assets.

This report contains a listing of these metrics from each participating MERS employer as well as summary information. These metrics in the AAVs and this report are significant to understanding the risks associated with the plans. The following discussion elaborates on the potential significance of each of these metrics.

Market Value of Assets over Payroll

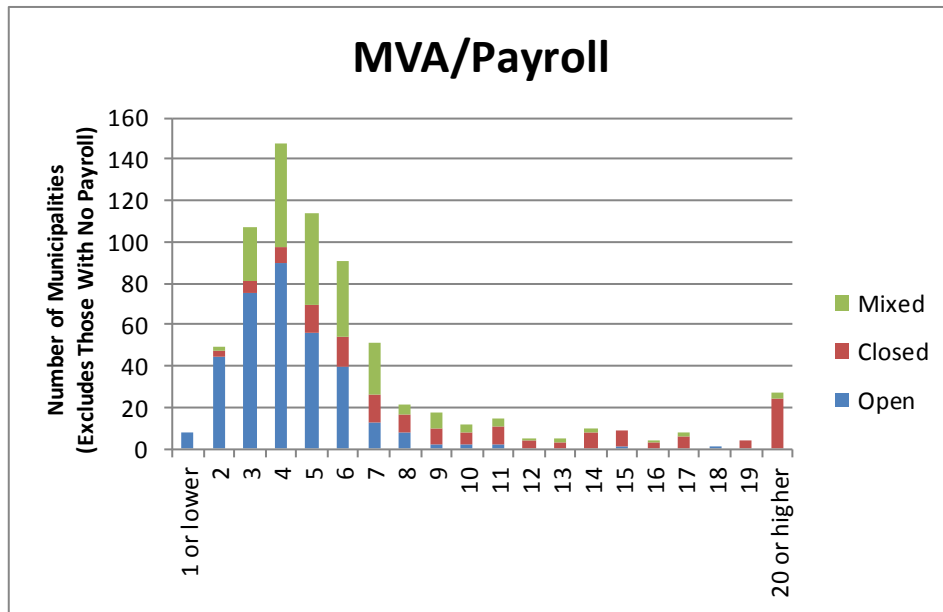
The ratio of the market value of assets (MVA) over active payroll provides an indication of the size of the plan relative to the size of the employer. As a plan matures and assets accumulate, this ratio generally increases. For plans that have a large portion of retirees or a declining payroll (e.g., if the plan is closed to new hires), this ratio can get quite high. This measure is not provided for plans with no active payroll.

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll. Differences in experience are generally funded by employer contributions under the MERS Actuarial Policy.

It is important to understand that while a higher ratio of MVA to payroll may indicate more investment risk exposure to the plan sponsor, there may be circumstances when a higher ratio is a desired outcome for plan funding purposes. For example, if a plan has a low funded status and subsequently receives a large cash infusion, the plan's ratio of MVA to payroll will increase immediately after receiving those proceeds. Conversely, a plan with no assets would have a metric of 0 (i.e., if nothing is invested, there is no investment risk), but an unfunded plan provides little to no security for the participants' benefits.

As of December 31, there were 705 employers with non-zero payroll. The median ratio of the market value of assets to payroll was 4.4. The median ratio varied considerably depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a growing payroll), all divisions closed to new hires (and therefore a declining payroll), or mixed. If a plan is closed or mixed, the plan payroll may not be representative of the employer as a whole and may result in higher MVA to payroll measures. The median ratio was 3.4 for plans with all open divisions and 9.3 for plans with all divisions closed, over twice as high.

Chart 7: Distribution of Market Value of Assets over Payroll



MVA/Payroll

	<u>Count</u>	<u>Median</u>
Closed Employer ¹	16	N/A
Open Employer, All Divisions Open	342	3.4
Open Employer, All Divisions Closed	147	9.3
Open Employer, Mix of Open and Closed Divisions	216	4.6
Subtotal	721	4.4
No Payroll ¹	24	N/A
Total	745	4.4

¹ Employers with no payroll were excluded from the chart.

Actuarial Accrued Liability over Payroll

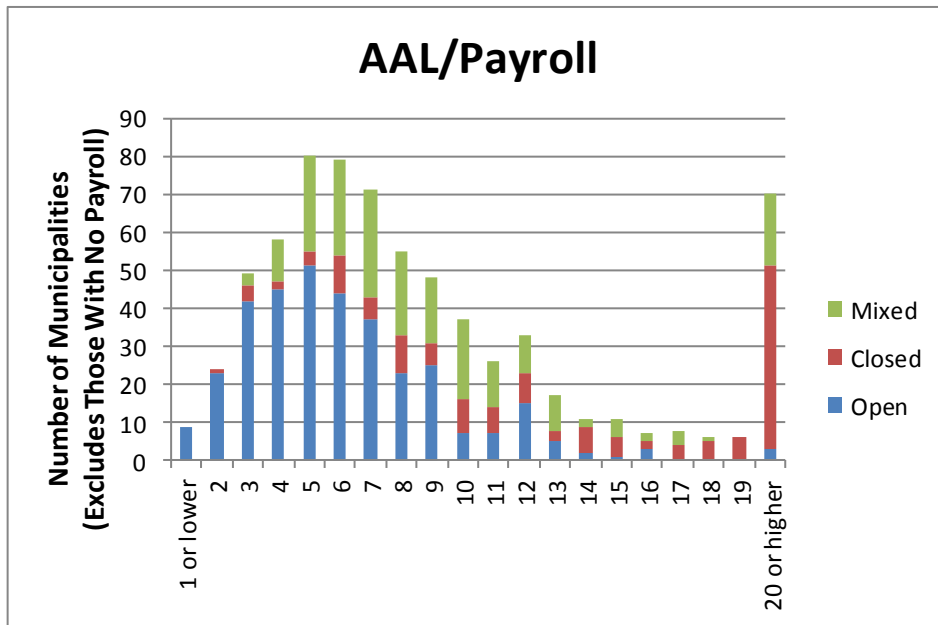
The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

Similar to the ratio of MVA to payroll described previously, as a plan matures and liability accumulates, the ratio of AAL to payroll generally increases. For plans that have a large portion of retirees or a declining payroll (e.g., if the plan is closed to new hires), this ratio can get quite high. This measure is not provided for plans with no active payroll.

The ratio of the AAL to payroll gives an indication of ultimate investment risk borne by the plan sponsor when the plan is fully funded (similar to the ratio of MVA to payroll). Moreover, this ratio gives an indication of other liability risks borne by the plan sponsor. For example, if the ratio of AAL over payroll is 3.0 and the plan experiences 1% change in liability from expected in a given year, the resulting liability gain or loss would be 3% of payroll. The greater the ratio, the greater the impact of gains and losses on plan funding. Differences in experience are generally funded by employer contributions under the MERS Actuarial Policy.

As of December 31, there were 705 employers with non-zero payroll. The median ratio of the actuarial accrued liability to payroll was 6.8. The median ratio varied considerably depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a growing payroll), all divisions closed to new hires (and therefore a declining payroll), or mixed. If a plan is closed or mixed, the plan payroll may not be representative of the employer as a whole and may result in higher AAL to payroll measures. The median ratio was 5.0 for plans with all open divisions and 13.4 for plans with all divisions closed, over twice as high.

Chart 8: Distribution of Actuarial Accrued Liability over Payroll



AAL/Payroll

	<u>Count</u>	<u>Median</u>
Closed Employer ¹	16	N/A
Open Employer, All Divisions Open	342	5.0
Open Employer, All Divisions Closed	147	13.4
Open Employer, Mix of Open and Closed Divisions	216	7.8
Subtotal	721	6.8
No Payroll ¹	24	N/A
Total	745	6.8

¹ Employers with no payroll were excluded from the chart.

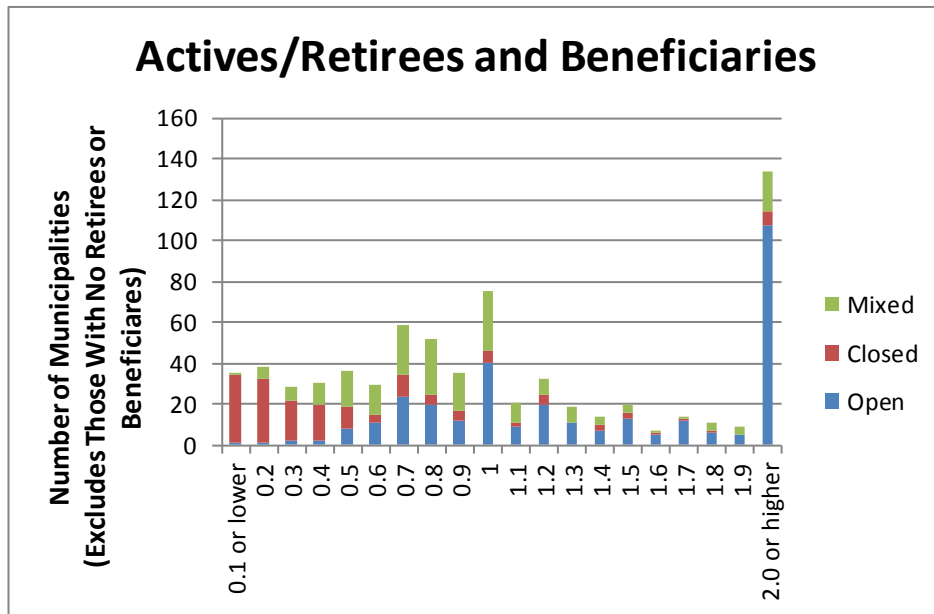
Actives over Retirees and Beneficiaries

A young plan with many active participants and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

Very generally speaking, a higher ratio indicates that there are more participants “paying in” to the system than “drawing out” of the system. For purposes of actuarial funding as a percentage of payroll, plans with a higher ratio may be expected to have a relatively larger payroll base and consequently may experience less contribution volatility as a percentage of payroll than a plan with a low ratio.

As of December 31, there were 714 employers with a non-zero retiree and beneficiary count. The median ratio of actives to retirees and beneficiaries was 0.9. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a more stable number of actives), all divisions closed to new hires (and therefore a declining active headcount), or mixed. If a plan is closed or mixed, the number of actives may not be representative of the employer as a whole and may result in lower active to retiree and beneficiary measures. The median ratio was 3.4 for plans with all open divisions and 0.3 for plans with all divisions closed, a third as high.

Chart 9: Distribution of Actives over Retirees and Beneficiaries



Actives/Retirees and Beneficiaries

	<u>Count</u>	<u>Median</u>
Closed Employer	16	0.0
Open Employer, All Divisions Open	316	1.3
Open Employer, All Divisions Closed	166	0.3
Open Employer, Mix of Open and Closed Divisions	216	0.8
Subtotal	714	0.9
No Retirees and Beneficiaries ¹	31	N/A
Total	745	0.9

¹ Employers with no retirees or beneficiaries were excluded from the chart.

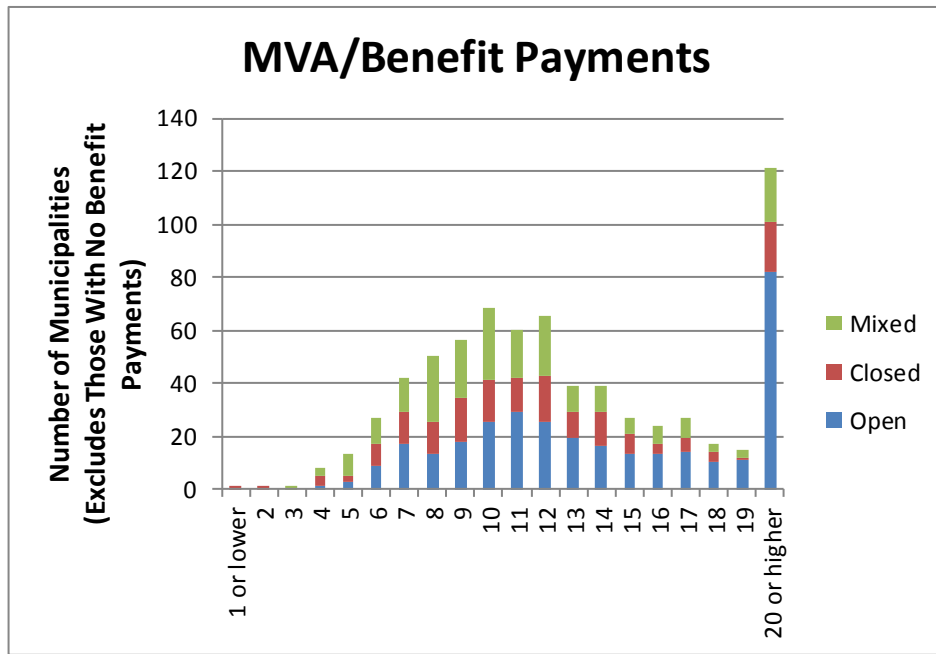
Market Value of Assets over Benefit Payments

The MERS' Actuarial Policy requires a total minimum contribution equal to the excess (if any) of three times the expected annual benefit payments over the projected market value of assets as of the participating municipality or court's Fiscal Year for which the contribution applies. The ratio of market value of assets to benefit payments as of the valuation date provides an indication of whether the division is at risk for triggering the minimum contribution rule in the near term. If the division triggers this minimum contribution rule, the required employer contributions could increase dramatically relative to previous valuations.

Very generally speaking, this ratio indicates how many years of benefits could be paid from assets at the current amount assuming no future contributions or investment return. Under the current actuarial assumptions, a fully funded, one-person plan with a 60-year-old retiree with a straight life annuity would have a ratio of 10.6. In this scenario, the assets would be sufficient to pay this retiree's benefit for the rest of his or her life. If all assumptions are met, including achieving a 7.75% rate return each year and surviving each year as expected under the mortality assumption. Different plans may have higher or lower ratios; however, plans with a very low ratio are generally at increased risk of failing to pay benefits without a potentially significant increase in contributions.

As of December 31, there were 717 employers with non-zero benefit payments. The median ratio of MVA to benefit payments was 11.4. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires (and therefore a more stable number of actives), all divisions closed to new hires (and therefore a larger portion of retirees), or mixed. If a plan is closed or mixed, the plan may be maturing, mature, or super mature. The median ratio was 13.0 for plans with all open divisions and 11.0 for plans with all closed divisions.

Chart 10: Distribution of Market Value of Assets to Benefit Payments



MVA/Benefit Payments

	<u>Count</u>	<u>Median</u>
Closed Employer	16	12.4
Open Employer, All Divisions Open	318	13.0
Open Employer, All Divisions Closed	167	11.0
Open Employer, Mix of Open and Closed Divisions	216	9.9
Subtotal	717	11.4
No Benefit Payments ¹	28	N/A
Total	745	11.4

¹ Employers with no benefit payments were excluded from the chart.

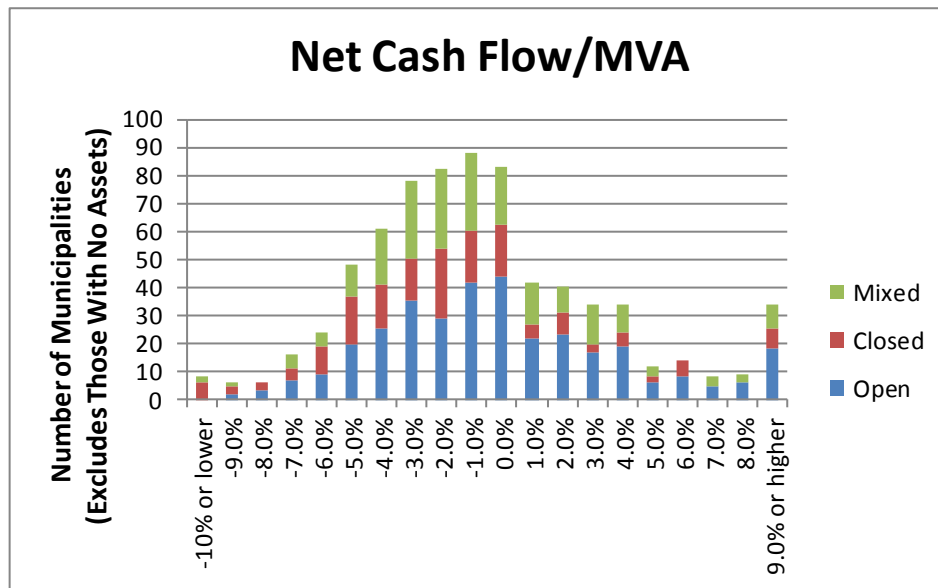
Net Cash Flow as a Percent of Market Value of Assets

The ratio of the net cash flow as a percent of the market value of assets (MVA) gives a rough indication of the draw down of assets disregarding investment return and expense. Net cash flow is defined as employer and employee contributions minus benefit payments. Ultimately, the purpose of prefunding is to have the return on plan assets pay a portion of the benefits each year. In other words, the expectation is that in the long run the net cash flow will be negative as a percent of MVA. A young plan may be receiving more contributions than paying benefits during the accumulation phase of plan funding and therefore may have a positive net cash flow as a percent of assets. Similarly, a mature or super-mature plan may be paying out more in benefits and have a negative ratio of net cash flow as a percent of assets.

In general, if the ratio of net cash flow as a percent of MVA is more negative than the rate of return in the plan, the assets will decrease. A large, negative net cash flow may indicate increased risk of the sufficiency of plan assets to pay benefits when due. For example, a plan with a ratio of net cash flow over MVA of -10.00% that achieves a 7.75% rate of return for the year would experience a decline in assets of 2.25% (7.75% - 10.00%).

As of December 31, the median ratio of net cash flow to MVA was -1.8%. The median ratio varied depending on whether or not the plan as a whole had all divisions open to new hires, all divisions closed to new hires, or mixed. If a plan is closed or mixed, the plan may be maturing, mature, or super mature. The median ratio was -1.0% for plans with all open divisions, -2.5% for plans with all divisions closed, and -7.0% for all closed municipalities.

Chart 11: Distribution of Net Cash Flow as a Percent of Market Value of Assets



Net Cash Flow/MVA

	<u>Count</u>	<u>Median</u>
Closed Employer	16	-7.0%
Open Employer, All Divisions Open	340	-1.0%
Open Employer, All Divisions Closed	171	-2.5%
Open Employer, Mix of Open and Closed Divisions	216	-1.8%
Subtotal	743	-1.8%
No beginning of year assets ¹	2	N/A
Total	745	-1.8%

¹ Employers with no beginning of year assets in MERS (such as new plans) were excluded from the chart.

APPENDICES

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

DECEMBER 31, 2018 VALUATION RESULTS BY MUNICIPALITY

MERS 12/31/2018 Valuation – Results By Municipality

Appendix A: Participant Information

Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
21st Dist Ct	8243	1	7/1/2020	9	380,705	7	181,553	1	3,954
23rd Jud Dist Ct	8223	1	7/1/2020	7	350,057	9	231,019	3	42,122
26th Jud Cir Ct	0403	1	1/1/2020	16	590,081	24	277,187	18	71,998
34th Dist Ct	8235	1	7/1/2020	36	1,773,646	14	453,438	4	55,996
35th Dist Ct	8234	1	1/1/2020	15	729,385	16	458,694	1	13,700
41 B Dist Ct	5014	3	1/1/2020	34	1,539,081	38	611,126	6	117,090
Addison Fire Dept	4607	1	4/1/2020	1	92,976	0	0	1	15,481
Adrian City of	4601	11	7/1/2020	105	5,731,080	162	4,533,492	25	369,201
Aitkin Memorial Dist Lib	7407	1	7/1/2020	0	0	0	0	1	22,644
Albion City of	1301	6	1/1/2020	17	885,836	104	1,207,087	13	74,397
Alcona Co	0101	8	1/1/2020	45	1,713,251	63	921,114	11	56,053
Alger Co	0203	16	1/1/2020	33	1,591,106	38	800,025	3	21,891
Alger CRC	0201	2	1/1/2020	24	1,399,412	36	715,657	2	34,008
Algonac City of	7707	4	7/1/2020	6	324,482	23	388,879	14	196,800
Allegan City of	0309	5	7/1/2020	9	672,898	8	243,601	4	29,870
Allegan Co	0302	14	1/1/2020	53	3,881,074	273	4,475,412	56	498,385
Allegan CRC	0301	5	1/1/2020	55	2,683,057	83	1,996,334	2	29,539
Alma City of	2901	6	7/1/2020	76	3,167,791	87	1,565,209	7	93,039
Almont Vlg of	4407	6	7/1/2020	13	759,554	5	122,288	4	54,377
Alpena Co	0401	8	1/1/2020	87	3,707,426	127	1,551,366	32	190,962
Alpena CRC	0402	1	1/1/2020	12	692,862	46	944,000	1	7,490
Alpena HC	0406	1	1/1/2020	6	364,640	2	37,662	0	0
Alpena Sr Citizens Ctr	0404	1	10/1/2020	0	0	6	75,915	0	0
Alpha Vlg of	3614	1	4/1/2020	1	8,983	0	0	2	2,641
Antrim Co	0502	7	1/1/2020	273	12,976,469	200	2,135,680	70	556,272
Antrim CRC	0501	4	1/1/2020	34	1,562,778	40	807,834	3	80,877
Arenac Co	0603	10	1/1/2020	28	1,207,284	71	720,030	22	147,184
Arenac CRC	0604	5	1/1/2020	15	755,394	34	536,221	1	8,158
Armada Twp	5022	1	4/1/2020	6	306,606	0	0	0	0
Ash Twp	5804	1	4/1/2020	5	217,621	2	47,487	2	7,709
Au Gres City of	0602	2	4/1/2020	1	49,248	9	215,846	0	0
Auburn City of	0905	2	7/1/2020	2	35,935	7	161,990	2	14,680
Bad Axe Area Dist Lib	3214	1	7/1/2020	1	48,855	0	0	0	0
Bad Axe City of	3211	1	7/1/2020	19	1,032,498	22	572,489	1	14,941
Bancroft Vlg of	7610	1	3/1/2020	0	0	1	7,884	1	6,352
Bangor City of	8003	1	7/1/2020	9	326,718	15	131,870	18	40,387
Baraga Co	0702	2	1/1/2020	29	1,377,859	31	401,253	7	44,050
Baraga Co Memorial Hosp	0703	2	10/1/2020	42	2,017,817	134	1,499,916	32	290,468
Baraga CRC	0701	8	10/1/2020	19	851,755	35	587,501	1	17,107
Baraga Vlg of	0704	3	3/1/2020	11	520,003	12	290,197	3	36,279
Baroda Lake Twp Police Dept	1109	1	4/1/2020	5	328,118	1	12,131	1	683
Barry Co	0802	16	1/1/2020	437	18,415,863	244	3,764,209	78	733,653
Barry Co CMH Auth	0804	2	10/1/2020	74	3,142,643	10	327,836	16	243,064
Barry Eaton Dist Hlth Dept	2303	2	1/1/2020	55	2,530,932	94	1,320,462	36	325,257
Barton Hills Vlg of	8107	1	4/1/2020	2	128,602	1	29,421	0	0
Bates Twp	3616	1	4/1/2020	0	0	1	27,441	0	0
Bath Chtr Twp	1909	1	1/1/2020	25	1,561,542	12	348,926	4	41,473
Battle Creek City of	1302	14	7/1/2020	345	19,275,745	425	10,724,962	48	681,417
Bay Area Trans Auth	2810	2	10/1/2020	106	4,156,400	51	317,440	11	81,869
Bay City City of	0901	7	7/1/2020	26	1,623,125	290	6,364,071	13	163,412
Bay City HC	0906	2	10/1/2020	3	159,183	25	693,368	0	0
Bay Metro Trans Auth	0907	7	10/1/2020	85	3,562,278	67	918,808	12	53,706
Beecher Metro Dist Swg&Wtr	2501	2	7/1/2020	5	346,478	14	405,324	1	15,164
Belding City of	3410	3	7/1/2020	7	335,136	7	196,675	2	3,847
Belleville City of	8213	5	7/1/2020	14	731,870	21	498,007	9	48,214
Benton Harbor City of	1120	4	7/1/2020	42	1,711,400	84	2,148,349	5	65,171
Benzie Co	1003	9	10/1/2020	92	4,082,032	83	1,050,672	35	251,098
Benzie Co Comm on Aging	1006	1	10/1/2020	0	0	7	79,094	8	34,962
Benzie Co MCF (The Maples)	1004	2	1/1/2020	113	4,237,972	62	604,339	26	142,877
Benzie CRC	1001	5	1/1/2020	29	1,210,112	47	662,669	10	90,849
Benzie Shores Dist Lib	1005	1	7/1/2020	0	0	1	32,768	0	0
Benzie Trans Auth	1007	1	10/1/2020	10	367,642	6	19,739	1	821
Benzie/Leelanau Dist Hlth Dept	4504	1	10/1/2020	2	126,045	3	63,175	0	0
Berkley City of	6304	5	7/1/2020	39	1,918,830	74	1,735,046	12	141,264
Berrien Springs Vlg of	1102	2	7/1/2020	10	463,713	11	122,686	3	23,656
Bessemer City of	2702	1	7/1/2020	11	561,961	12	130,454	1	2,549
Beverly Hills Vlg of	6321	4	7/1/2020	17	1,431,207	58	1,716,832	11	205,423
Big Rapids City of	5402	2	7/1/2020	10	530,086	52	1,189,479	4	20,336
Big Rapids HC	5406	1	4/1/2020	2	185,765	5	117,058	2	16,254
Bingham Farms Vlg of	6332	1	7/1/2020	2	166,067	1	21,426	0	0
Birch Run Vlg of	7315	2	7/1/2020	13	556,483	4	72,126	5	21,851
Bishop Intl Arprt Auth	2507	1	1/1/2020	27	1,686,188	15	310,084	2	67,050
Blackman Chtr Twp	3806	1	1/1/2020	37	2,716,906	15	529,209	1	48,835
Blissfield Vlg of	4606	1	7/1/2020	22	1,164,784	10	215,101	9	55,033
Bloomfield Hills City of	6302	8	7/1/2020	23	1,932,814	46	2,422,240	3	75,365
Blue Water Area Trans Comm	7709	2	10/1/2020	62	2,786,485	24	290,285	5	38,615
Boyer City City of	1506	3	5/1/2020	9	611,162	38	575,824	5	52,424
Boyer City HC	1508	2	10/1/2020	4	167,198	4	77,933	2	19,120



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Branch Co	1205	21	1/1/2020	263	12,219,224	141	2,405,121	203	2,570,261
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	1	1/1/2020	40	1,673,482	61	881,976	19	188,768
Brandon Chtr Twp of	6333	2	1/1/2020	25	1,363,225	18	381,463	2	29,988
BreckenridgeVlg of	2906	3	3/1/2020	10	410,091	10	195,296	6	24,450
Bridgeport Chtr Twp	7307	6	1/1/2020	38	1,728,077	38	537,515	26	259,026
Bridgman City of	1110	2	7/1/2020	17	935,410	7	104,109	5	44,719
Brighton Area Fire Auth	4715	1	7/1/2020	1	56,300	1	19,035	0	0
Brighton Chtr Twp of	4711	8	4/1/2020	10	511,739	11	110,007	5	42,670
Brighton City of	4704	7	7/1/2020	51	3,777,392	44	1,209,227	10	78,200
Britton Vlg of	4604	1	3/1/2020	2	75,350	0	0	1	5,001
Bronson City of	1204	3	7/1/2020	12	636,341	6	80,656	4	56,056
Brooklyn Vlg of	3801	1	7/1/2020	8	313,503	5	95,246	1	3,996
Brownstown Chtr Twp of	8247	3	1/1/2020	64	4,536,298	15	779,723	6	83,354
Buchanan City of	1101	4	7/1/2020	27	1,491,015	35	467,469	8	78,244
Buchanan Dist Lib	1108	1	7/1/2020	4	130,108	1	3,673	2	8,093
Buena Vista Chtr Twp	7312	7	1/1/2020	31	1,537,457	30	809,896	15	154,296
Burton City of	2508	7	7/1/2020	79	4,221,843	91	3,467,734	21	249,995
Butman Twp CLD	2604	1		0	0	3	7,286	0	0
Cadillac City of	8301	8	7/1/2020	58	2,715,874	73	973,814	9	148,189
Cadillac/Wexford Trans Auth	8305	2	10/1/2020	18	701,517	14	161,819	0	0
Calhoun Co	1311	8	1/1/2020	564	28,391,291	301	5,484,099	89	1,015,359
Calhoun Co Conso Dispatch Auth	1316	3	1/1/2020	10	635,550	9	288,784	3	46,811
Canton Chtr Twp of	8233	18	1/1/2020	364	27,774,155	154	7,849,417	26	306,956
Canton Pub Lib	8232	1	1/1/2020	14	903,102	12	349,226	2	21,265
Capac Vlg of	7705	5	7/1/2020	2	124,768	17	212,996	5	13,131
Capital Area Dist Lib	3317	4	1/1/2020	61	3,317,209	25	346,084	8	61,708
Capital Region Arprt Auth	3305	11	7/1/2020	40	2,171,147	42	1,103,702	22	289,553
Carleton Vlg of	5805	1	3/1/2020	6	230,232	5	63,069	1	9,436
Carrollton Twp	7320	2	4/1/2020	20	812,381	9	166,431	3	33,960
Cascade Chtr Twp	4110	1	1/1/2020	26	1,656,630	25	465,240	5	51,282
Caseville City of	3207	2	3/1/2020	12	571,136	8	154,044	0	0
Caspian City of	3608	1	7/1/2020	2	109,262	7	91,787	2	7,953
Cass Co	1402	10	10/1/2020	153	7,782,750	104	1,680,853	23	164,503
Cass Co MCF	1403	2	10/1/2020	94	4,532,613	43	368,396	5	43,511
Cass Dist Lib	1404	1	1/1/2020	12	407,686	7	44,408	4	14,192
Cedar Springs City of	4105	4	7/1/2020	8	384,720	17	259,464	10	98,927
Center Line City of	5001	7	7/1/2020	14	660,679	42	700,531	5	41,477
Central Lake Vlg of	0504	1	3/1/2020	5	210,392	0	0	1	2,407
Central Mich Dist Hlth Dept	3705	5	10/1/2020	30	1,408,383	106	1,536,465	40	348,772
Charlevoix City of	1505	4	4/1/2020	51	2,893,241	43	971,633	6	78,352
Charlevoix Co	1503	7	1/1/2020	281	11,955,517	218	2,944,375	64	604,983
Charlevoix CRC	1501	3	1/1/2020	35	1,503,065	43	550,882	7	56,027
Charlotte City of	2301	9	7/1/2020	46	2,605,068	72	1,618,024	11	133,195
Charlotte Dist Lib	2309	3	7/1/2020	5	182,741	5	71,103	1	2,057
Cheboygan City of	1602	6	7/1/2020	26	1,304,097	37	737,866	4	26,117
Cheboygan Co	1603	6	1/1/2020	134	5,924,730	104	1,647,401	16	166,955
Cheboygan CRC	1601	3	1/1/2020	30	1,327,718	60	1,366,957	6	93,271
Chelsea Area Fire Auth	8118	1	3/1/2020	10	607,271	1	16,235	4	25,708
Chelsea City of	8103	3	7/1/2020	2	206,696	38	1,081,490	6	88,505
Chesaning Vlg of	7313	6	3/1/2020	11	502,252	14	253,590	5	24,350
Chesterfield Twp	5009	7	1/1/2020	144	8,723,965	80	2,012,140	16	208,551
Chesterfield Twp Lib	5010	1	1/1/2020	6	321,943	3	75,266	4	46,393
Chikaming Twp	1112	2	4/1/2020	22	922,007	8	147,437	0	0
Chippewa Co	1703	14	1/1/2020	164	8,043,803	173	2,795,158	26	176,289
Chippewa Co - Emplmt & Trng CLD	1710	1		0	0	13	144,387	1	17,977
Chippewa CRC	1704	2	1/1/2020	63	3,378,810	91	1,466,910	4	44,290
Chippewa River Dist Lib	3707	3	1/1/2020	14	737,532	7	164,642	6	75,118
Chocolay Chtr Twp of	5218	1	1/1/2020	14	694,033	8	112,916	2	20,089
Clare City of	1804	2	7/1/2020	28	1,340,751	24	513,576	8	89,096
Clare Co	1802	6	1/1/2020	153	5,956,302	93	1,296,307	36	327,229
Clare Co Trans Auth	1806	1	10/1/2020	3	166,037	1	8,895	1	1,368
Clare CRC	1801	5	7/1/2020	35	1,767,643	44	907,455	3	13,713
Clawson City of	6305	3	7/1/2020	10	743,002	60	1,990,248	3	47,943
Clay Twp	7706	9	7/1/2020	36	2,019,212	30	545,351	4	82,273
Clearwater Twp	4005	1	4/1/2020	1	37,148	1	12,217	0	0
Clinton Co	1903	7	1/1/2020	108	6,012,586	174	3,179,038	35	424,666
Clinton CRC	1901	7	1/1/2020	43	2,461,222	54	1,403,753	6	106,993
Clinton Twp	5002	27	4/1/2020	152	9,148,531	202	5,310,038	16	243,746
Clinton Vlg of	4602	4	4/1/2020	16	968,182	16	321,872	1	13,342
Clinton-Eaton-Ingham CMH	3308	7	10/1/2020	838	41,569,131	488	10,414,766	138	1,441,593
Clio City of	2523	1	7/1/2020	17	717,331	7	104,467	5	17,006
CMH for Central Mich	3708	1	10/1/2020	371	20,232,217	246	4,320,372	102	957,037
Coldwater Brd of Pub Util	1203	3	7/1/2020	11	816,798	35	925,981	6	47,519
Coldwater City of	1201	6	7/1/2020	11	770,782	60	1,325,689	6	49,191
Coleman City of	5603	2	7/1/2020	8	417,249	7	163,101	0	0
Coloma Chtr Twp	1107	3	4/1/2020	12	644,632	3	114,222	3	76,045
Coloma City of	1118	1	4/1/2020	6	266,314	1	17,305	0	0
Columbiaville Vlg of	4406	1	3/1/2020	3	160,957	4	28,524	0	0



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix A: Participant Information

Municipality Name	Number	Participant Information							
		Number of Divisions	Fiscal Year Beginning	Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Constantine Vlg of	7806	1	4/1/2020	2	110,604	0	0	2	14,167
Coopersville Area Dist Lib	7011	3	7/1/2020	1	48,000	3	30,747	1	2,501
Coopersville City of	7005	1	7/1/2020	17	872,134	18	232,508	4	51,428
Corunna City of	7604	6	7/1/2020	12	642,787	16	373,983	3	15,206
Corwith Twp	6904	1	4/1/2020	7	77,848	0	0	2	3,630
Covert Twp	8010	1	7/1/2020	14	835,713	2	62,675	5	41,212
Crawford Co	2001	7	10/1/2020	38	1,840,388	86	1,299,702	22	153,880
Crawford Co Trans Auth	2004	1	10/1/2020	17	674,334	19	348,203	2	31,824
Crawford CRC	2002	3	10/1/2020	30	1,525,646	30	588,010	0	0
Croswell City of	7401	3	7/1/2020	25	1,527,233	23	609,278	6	80,055
Crystal Falls City of	3603	4	1/1/2020	15	906,002	24	582,868	8	54,356
Crystal Falls Cmnty Hosp CLD	3618	2		0	0	79	336,151	32	43,471
Ctrl Dispatch of Muskegon Co	6109	4	10/1/2020	31	1,715,033	23	419,865	5	69,567
Ctrl Wayne Co Sanitation Auth	8214	2	7/1/2020	0	0	18	259,393	2	17,232
Davison Richfield Sr CCA	2525	2	7/1/2020	1	47,730	1	28,339	0	0
Davison Twp	2519	2	7/1/2020	39	2,280,137	15	583,712	4	45,068
DavisonCity of	2516	7	7/1/2020	17	1,016,077	19	752,714	3	27,124
Dearborn City of	8251	3	7/1/2020	192	14,787,609	0	0	1	1,824
Deerfield Vlg of	4603	1	3/1/2020	4	172,743	5	135,386	1	19,877
Delta Area Transit Auth	2107	1	10/1/2020	1	58,689	0	0	0	0
Delta Chtr Twp	2306	1	1/1/2020	39	2,548,980	19	766,462	8	119,121
Delta Co	2102	9	10/1/2020	38	1,829,445	117	2,479,964	17	250,514
Delta CRC	2105	6	1/1/2020	33	1,586,458	47	908,577	4	53,593
Delta-Menominee Dist Hlth Dept	2103	4	1/1/2020	39	1,574,497	36	515,083	29	203,428
Detour Vlg of	1706	1	4/1/2020	8	204,979	5	29,217	1	7,641
Detroit HC	8241	5	7/1/2020	96	5,259,688	40	617,572	49	540,522
DeWitt Chtr Twp	1910	4	1/1/2020	15	1,097,100	8	304,793	3	41,055
DeWitt City of	1908	6	7/1/2020	16	971,160	18	333,456	13	89,706
Dexter Area Fire Dept	8219	1	1/1/2020	8	605,938	3	48,136	0	0
Dexter City of	8217	2	7/1/2020	8	563,746	10	194,864	2	18,579
Dexter Twp	8111	2	4/1/2020	9	211,771	9	55,250	1	876
Dickinson Co	2206	10	1/1/2020	74	3,504,766	93	2,055,475	21	283,699
Dickinson CRC	2203	3	1/1/2020	16	877,553	46	801,890	8	71,687
Dickinson-Iron Dist Hlth Dept	3605	4	1/1/2020	17	896,043	54	697,674	11	94,015
DimondaleVlg of	2304	1	3/1/2020	2	84,571	6	79,695	1	15,341
Dist Hlth Dept # 2	6501	2	1/1/2020	8	338,905	41	609,748	8	112,241
Dist Hlth Dept # 4	7103	2	1/1/2020	40	1,640,690	63	1,452,965	10	64,152
Dist Hlth Dept #10	5104	3	10/1/2020	128	5,863,389	127	2,357,651	18	99,315
Douglas City of Vlg of	0303	3	3/1/2020	14	762,993	15	154,245	13	117,669
Dowagiac City of	1401	7	10/1/2020	43	2,243,557	67	1,370,970	18	295,106
Dowagiac Dist Lib	1406	2	10/1/2020	3	114,988	2	9,536	0	0
Dowagiac HC	1405	2	10/1/2020	5	192,259	2	19,891	2	4,712
Drummond Island Twp	1708	1	4/1/2020	2	81,498	1	2,223	0	0
Dryden Vlg of	4405	1	4/1/2020	1	40,526	3	35,295	1	18,604
Dundee Vlg of	5803	2	3/1/2020	8	448,435	14	315,994	3	63,337
Durand City of	7603	3	7/1/2020	20	932,427	21	394,432	6	75,643
E UP Reg Planning & Dev Comm	1709	1	10/1/2020	5	222,277	0	0	0	0
E UP Trans Auth	1705	3	10/1/2020	21	1,122,802	31	815,455	3	23,182
East China Chtr Twp	7701	1	4/1/2020	14	857,648	18	659,999	3	65,977
East Grand RapidsCity of	4101	5	7/1/2020	4	324,417	46	1,731,894	7	48,123
East Jordan City of	1504	4	7/1/2020	18	837,328	25	344,567	3	30,640
East Lansing City of	3301	22	7/1/2020	259	15,735,788	375	13,163,559	83	820,096
Eastpointe City of	5019	13	1/1/2020	98	7,348,992	213	6,642,790	13	221,469
Eastpointe HC	5011	1	7/1/2020	6	387,628	2	20,558	0	0
Eaton Co	2302	9	10/1/2020	334	17,348,635	310	9,264,483	78	1,218,980
Eaton Co Hlth & Rehab Svcs	2305	4	1/1/2020	208	8,672,329	47	464,868	19	120,200
Eaton Rapids City of	2307	8	7/1/2020	33	1,919,070	35	1,037,665	16	114,837
Eau Claire Vlg of	1104	2	3/1/2020	1	46,846	2	38,836	0	0
Ecorse City of	8206	9	7/1/2020	27	1,833,471	132	3,797,499	10	100,898
Elk Rapids Vlg of	0506	1	3/1/2020	21	1,108,796	6	142,715	1	3,456
Elkton Vlg of	3206	2	3/1/2020	1	43,115	6	56,695	2	5,342
Elsie Vlg of CLD	1906	1		0	0	3	12,278	0	0
Emmet CRC	2401	4	1/1/2020	9	554,731	40	1,032,724	1	1,753
Emmett Chtr Twp	1310	2	4/1/2020	24	1,343,832	14	225,158	10	114,353
Erie Twp of	5812	1	7/1/2020	5	184,861	0	0	0	0
Eschanaba City of	2101	12	7/1/2020	32	1,647,886	123	2,638,906	13	148,451
Essexville City of	0903	6	7/1/2020	13	698,744	23	548,321	7	118,932
Ewart City of	6705	2	7/1/2020	12	577,173	9	136,689	8	61,494
Ewart Local Dev Finance Auth	6706	2	7/1/2020	1	34,711	2	38,453	0	0
Farmington City of	6343	6	7/1/2020	42	2,893,629	58	1,761,614	8	79,358
Farmington Cmnty Lib	6319	2	7/1/2020	7	413,991	29	679,880	3	13,650
Farwell Vlg of	1805	1	3/1/2020	5	189,795	2	38,274	1	13,832
Fenton City of	2505	11	7/1/2020	45	2,990,576	45	1,035,874	6	102,088
Ferndale HC	6345	1	1/1/2020	4	239,918	1	17,269	1	49,481
Ferrysburg City of	7106	1	7/1/2020	7	388,804	11	123,451	1	3,689
Flat Rock City of	8212	12	7/1/2020	55	3,444,551	61	1,868,202	10	255,547
Flint Chtr Twp of	2512	6	1/1/2020	66	4,011,678	48	1,991,126	6	64,596
Flint City of	2530	19	7/1/2020	443	22,408,172	1,773	50,476,076	115	1,866,611



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Flint Pub Lib	2518	1	7/1/2020	18	837,791	3	22,549	9	51,826
Flushing Chtr Twp of	2515	3	4/1/2020	9	516,225	13	371,903	4	15,005
Flushing City of	2502	7	7/1/2020	14	965,175	41	1,313,949	5	86,751
Forsyth Twp	5212	7	4/1/2020	21	985,792	20	514,985	9	74,210
Fowler Vlg of	1904	1	1/1/2020	3	151,977	1	9,627	1	4,786
Fowlerville Dist Lib	4710	1	7/1/2020	6	233,831	2	50,665	0	0
Fowlerville Vlg of	4705	1	2/1/2020	2	116,841	13	213,245	3	21,256
Frankenmuth City of	7306	4	7/1/2020	27	1,827,170	24	934,462	2	34,996
Frankenmuth Wickson Dist Lib	7323	2	7/1/2020	0	0	1	19,977	0	0
Frankfort City of	1002	4	7/1/2020	13	720,838	17	223,532	4	27,625
Franklin Vlg of	6323	3	7/1/2020	12	737,921	13	493,972	1	2,186
Fraser City of	5003	10	7/1/2020	54	4,132,846	110	4,024,211	26	418,867
Fremont Area Dist Lib	6209	1	7/1/2020	6	261,337	6	69,224	2	25,221
Fremont City of	6203	4	7/1/2020	26	1,633,516	30	784,290	5	76,368
Gaastra City of	3617	1	7/1/2020	2	114,540	1	17,159	0	0
Garden City City of	8255	8	7/1/2020	101	5,928,099	180	5,794,067	3	31,000
Gaylord City of	6903	7	7/1/2020	31	1,673,989	33	965,485	2	12,518
Genesee Chtr Twp	2510	3	1/1/2020	26	1,366,565	47	1,131,428	10	141,642
Genoa Twp	4713	2	4/1/2020	2	228,343	0	0	0	0
Gerald R Ford Intl Arpt Auth	4116	2	1/1/2020	98	6,748,311	11	302,552	7	159,061
Gladstone City of	2106	5	4/1/2020	7	434,047	41	1,043,683	3	12,417
Gladwin City HC	2608	1	7/1/2020	16	626,267	15	303,380	4	34,120
Gladwin City of	2605	2	7/1/2020	8	388,985	2	41,638	0	0
Gladwin Co	2602	9	1/1/2020	91	3,815,748	93	1,330,879	33	250,049
Gladwin Co Dist Lib	2607	1	1/1/2020	5	131,240	6	68,953	0	0
Gladwin CRC	2601	3	1/1/2020	28	1,290,872	40	1,140,784	5	90,726
Gogebic-Iron WWTR Auth	2703	1	7/1/2020	7	411,760	6	149,227	0	0
Grand Beach Vlg of	1117	1	11/1/2020	7	389,608	1	8,289	1	7,575
Grand Blanc Chtr Twp	2511	3	1/1/2020	46	3,270,622	22	934,578	2	29,598
Grand Blanc City of	2513	4	6/1/2020	22	1,667,586	22	971,055	4	55,817
Grand Haven City of	7010	7	7/1/2020	176	11,230,904	206	6,269,920	50	549,699
Grand Ledge Area Dist. Library	2316	1	7/1/2020	1	76,132	0	0	0	0
Grand Ledge Area ESA	2310	1	7/1/2020	10	590,819	4	47,775	5	26,676
Grand Ledge City of	2312	3	7/1/2020	11	569,960	6	215,584	4	33,150
Grand Rapids HC	4108	1	7/1/2020	1	118,176	5	144,367	0	0
Grand Traverse Co	2803	21	1/1/2020	54	2,919,119	298	7,236,217	40	469,686
Grand Traverse CRC	2802	3	1/1/2020	2	95,867	54	911,078	2	16,577
Grand Traverse Pavilions	2809	5	1/1/2020	358	15,729,985	197	1,665,551	130	680,872
Grandville City of	4102	7	7/1/2020	11	781,993	64	1,581,684	5	52,228
Gratiot Co	2905	4	10/1/2020	31	1,716,989	104	1,807,894	13	154,880
Gratiot CRC	2903	2	1/1/2020	33	1,734,889	55	1,242,907	1	9,585
Grayling City of	2003	5	7/1/2020	4	227,897	20	312,841	5	68,907
Green Oak Chtr Twp	4708	3	4/1/2020	40	2,319,951	11	305,792	1	20,010
Greenville City of	5906	1	7/1/2020	17	1,158,283	12	361,868	4	56,481
Grosse Ile Twp	8207	8	4/1/2020	46	3,137,601	47	1,808,243	7	79,396
Grosse Pointe Park City of	8201	9	7/1/2020	65	4,891,136	92	3,015,549	9	165,101
Grosse Pointe-Clinton Ref CLD	5004	2		0	0	15	209,148	0	0
Groveland Twp	6335	3	4/1/2020	12	488,950	8	125,233	1	21,185
Hackley Pub Lib	6114	1	7/1/2020	9	379,002	0	0	1	12,434
Hamburg Twp	4709	2	7/1/2020	15	1,296,950	7	240,055	6	115,480
Hamtramck City of	8205	18	7/1/2020	89	4,644,127	221	8,114,781	27	311,015
Hamtramck HC	8250	2	1/1/2020	10	793,292	3	47,413	2	28,419
Hancock City of	3107	1	7/1/2020	14	736,838	7	241,625	2	24,119
Harbor Beach City of	3201	5	4/1/2020	20	1,074,511	19	447,895	2	16,382
Harbor Springs Area Swg Auth	2406	1	1/1/2020	7	381,517	3	48,632	0	0
Harbor Springs City of	2405	1	1/1/2020	27	1,644,500	12	331,478	0	0
Harper Woods City of	8260	11	1/1/2020	60	3,491,428	116	4,187,363	8	205,806
Harrison City of	1803	1	1/1/2020	9	397,618	11	212,740	2	27,027
Harrison Dist Lib	1807	1	1/1/2020	0	0	2	23,021	0	0
Hartland Deerfield Fire Auth	4716	1	4/1/2020	3	192,926	0	0	1	19,182
Hastings City of	0801	11	7/1/2020	57	2,356,062	73	1,199,933	24	190,847
Hazel Park City of	6336	21	7/1/2020	97	5,613,288	172	5,356,022	15	193,988
Helen Newberry Joy Hosp	4805	1	1/1/2020	14	791,304	88	1,366,812	10	125,688
Henika Dist Lib	0310	1	1/1/2020	3	110,538	2	37,247	0	0
Herrick Dist Lib	7012	2	7/1/2020	22	1,165,256	49	609,692	7	37,063
Hesperia Vlg of	6214	1	4/1/2020	0	0	0	0	1	6,596
Hiawatha Bhvrl Hlth	1707	6	10/1/2020	12	623,569	83	1,258,492	31	249,347
Hillsdale City of	3001	8	7/1/2020	60	3,449,539	73	1,569,196	13	197,720
Hillsdale Co	3005	1	1/1/2020	34	1,770,578	21	451,830	5	51,473
Hillsdale CRC	3004	2	1/1/2020	38	1,861,412	41	706,673	3	33,022
Hillsdale HC	3007	1	7/1/2020	3	119,268	3	18,780	0	0
Hlth Source of Saginaw	7311	8	1/1/2020	94	5,163,813	293	3,006,973	99	572,656
Holland Area Cmnty Pool Auth	7014	2	7/1/2020	8	451,540	6	33,484	2	12,443
Holland City of	7001	7	7/1/2020	154	11,648,336	348	8,895,463	57	869,829
Holland Cmnty Hosp CLD	7006	1		0	0	48	173,632	1	2,295
Holly Vlg of	6317	5	7/1/2020	24	1,445,146	35	985,374	8	74,969
Homer Vlg of	1304	1	1/1/2020	9	359,675	10	100,611	14	47,077
Houghton City of	3109	1	7/1/2020	28	1,655,700	5	126,803	2	38,860



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Houghton Co	3102	10	1/1/2020	75	3,736,325	110	1,958,095	12	213,056
Houghton CRC	3103	1	1/1/2020	6	424,564	8	292,641	1	34,546
Houghton Lake Pub Lib	7203	1	7/1/2020	6	205,528	3	51,657	1	1,696
Howard City Vlg of	5902	2	3/1/2020	1	38,708	5	71,130	5	27,714
Howard Twp	1106	1	4/1/2020	2	65,140	1	4,886	1	2,885
Howell Area Fire Auth	4714	2	7/1/2020	6	368,176	2	70,239	0	0
Howell City of	4702	8	7/1/2020	52	3,280,714	69	1,626,135	18	271,407
Howell-Carnegie Dist Lib	4707	1	7/1/2020	12	572,924	4	75,464	1	5,426
Hudsonville City of	7004	4	7/1/2020	0	0	11	176,074	9	96,328
Huntington Woods City of	6303	6	7/1/2020	23	1,959,087	52	1,853,968	2	31,589
Hurley Med Ctr	2521	14	7/1/2020	1,985	114,343,952	1,985	42,628,275	268	4,614,186
Huron Behavioral Health	3215	2	10/1/2020	61	3,198,053	41	742,682	22	309,696
Huron Chtr Twp	8224	4	1/1/2020	45	2,817,128	30	1,152,721	18	271,108
Huron Co	3204	5	1/1/2020	302	13,072,813	277	5,222,704	43	345,039
Huron CRC	3202	4	1/1/2020	61	3,155,826	55	1,582,891	4	78,899
Imlay City City of	4404	8	7/1/2020	21	1,280,376	29	540,328	6	27,909
Independence Twp	6328	1	1/1/2020	31	2,369,942	15	614,174	3	57,048
Indianfields Twp CLD	7905	1		0	0	11	19,177	6	6,560
Ingham Co	3303	64	1/1/2020	1,226	69,595,869	1,409	29,671,442	291	3,170,551
Interurban Trans Auth	0308	1	10/1/2020	7	301,484	4	104,615	0	0
Ionia City of	3403	10	7/1/2020	44	3,066,787	52	1,233,188	8	76,213
Ionia Cmnty Lib	3412	1	7/1/2020	5	208,197	4	48,469	1	14,357
Ionia Co	3408	6	1/1/2020	65	3,166,315	24	463,925	18	187,731
Ionia CRC	3404	2	1/1/2020	28	1,569,380	52	1,231,061	3	51,325
Ionia HC	3406	1	10/1/2020	4	173,306	3	82,505	0	0
Iosco Co	3501	9	1/1/2020	113	4,508,454	162	1,727,879	44	243,909
Iosco CRC	3502	2	1/1/2020	16	873,705	38	812,845	2	37,167
Iron Co	3606	12	1/1/2020	258	10,681,650	201	2,141,012	50	364,760
Iron Co HC	3611	1	10/1/2020	3	221,011	3	7,272	3	6,740
Iron CRC	3602	5	1/1/2020	21	1,116,800	45	967,275	1	14,616
Iron Mountain City of	2201	5	7/1/2020	21	1,084,643	48	1,052,444	2	5,400
Iron Mountain-Kingsford Swg	2205	2	7/1/2020	5	274,595	2	32,209	1	8,881
Iron River City of	3601	3	7/1/2020	11	505,179	37	693,624	4	75,389
Ironwood City of	2706	11	7/1/2020	37	1,923,368	81	1,425,630	5	72,983
Isabella Co	3703	9	10/1/2020	93	4,491,786	225	3,739,522	63	687,893
Isabella Co Trans Comm	3709	1	10/1/2020	14	662,804	6	149,913	0	0
Isabella CRC	3702	3	10/1/2020	35	1,742,738	40	738,442	10	99,640
Ishpeming Area Joint Wwtr Trtm	5207	2	1/1/2020	6	324,267	5	98,991	0	0
Ishpeming City of	5204	3	1/1/2020	26	1,331,729	43	1,138,581	4	44,465
Ishpeming Twp	5216	1	4/1/2020	11	309,684	10	110,879	1	4,504
Ithaca City of	2904	3	7/1/2020	3	151,337	18	396,898	4	21,857
Jackson Dist Lib	3802	2	1/1/2020	46	2,198,622	40	432,593	6	68,532
Jackson Trans Auth	3805	2	10/1/2020	46	2,003,384	25	392,077	5	77,291
Jordan Valley Dist Lib	1507	1	7/1/2020	1	76,260	1	6,951	0	0
Jordan Valley EMS Auth	1509	2	4/1/2020	3	166,654	1	8,758	1	4,746
Kalamazoo Chtr Twp of	3907	1	1/1/2020	31	2,012,606	15	697,387	2	31,671
Kalamazoo Lake Swr & Wtr Auth	0306	2	3/1/2020	8	378,587	7	111,320	6	44,917
Kalamazoo Pub Lib	3903	2	7/1/2020	67	3,671,097	13	229,351	13	107,958
Kalkaska Co	4003	6	1/1/2020	97	3,462,663	88	1,409,446	31	226,553
Kalkaska CRC	4002	4	1/1/2020	5	278,971	43	773,047	17	220,745
Kalkaska Pub Trans Auth	4004	1	10/1/2020	9	301,083	13	150,785	1	4,158
Kalkaska Vlg of	4001	6	3/1/2020	11	498,752	17	428,111	5	27,756
Keego Harbor City of	6322	3	7/1/2020	7	415,232	18	324,934	3	23,506
Kent CRC	4111	1	10/1/2020	0	0	3	28,721	0	0
Keweenaw Co	4202	4	1/1/2020	17	781,997	13	184,402	5	33,604
Keweenaw CRC	4201	3	1/1/2020	14	740,317	22	495,006	1	10,560
Kinde Vlg of	3209	1	2/1/2020	1	41,226	1	17,581	0	0
Kingsford City of	2202	5	7/1/2020	18	885,076	23	526,225	1	725
L.M.A.S. Dist Hlth Dept	4803	2	10/1/2020	31	1,412,805	128	671,660	99	359,916
Lac Vieux Desert Band	8402	1	1/1/2020	7	374,301	2	19,797	4	20,016
Laingsburg City of	7608	1	7/1/2020	5	196,831	2	24,491	1	8,022
Lake Co	4301	5	1/1/2020	107	4,947,396	81	1,083,858	37	245,408
Lake CRC	4302	2	1/1/2020	32	1,497,873	42	834,787	4	42,597
Lake Linden Vlg of	3105	2	3/1/2020	4	208,621	9	104,102	5	20,544
Lake Odessa Vlg of	3402	1	3/1/2020	2	131,868	2	31,493	0	0
Lake Orion Vlg of	6318	4	7/1/2020	4	244,394	14	303,552	4	19,644
Lakeland Lib Coop	4106	2	10/1/2020	8	383,137	4	52,112	2	12,124
Lakeshore Coordinating Council CLD	7007	1		0	0	9	93,162	11	43,163
Lakeview Cemetery	2407	1	1/1/2020	2	73,660	0	0	0	0
L'Anse Vlg of	0705	1	7/1/2020	19	993,205	21	457,491	1	1,586
Lansing Chtr Twp	3320	4	1/1/2020	45	2,595,140	13	446,560	8	78,171
Lansing HC	3311	3	7/1/2020	24	1,072,020	41	745,419	13	134,343
Lapeer City of	4401	6	7/1/2020	70	4,434,972	64	1,471,108	20	150,661
Lapeer Co	4403	10	1/1/2020	712	29,766,267	398	6,029,835	142	1,289,046
Lapeer CRC	4402	9	10/1/2020	48	2,624,060	56	1,154,755	5	38,118
Lapeer Dist Lib	4410	1	1/1/2020	22	761,844	20	342,558	3	30,923
Lathrup Vlg City of	6311	5	7/1/2020	5	477,215	20	616,765	2	12,563
Laurium Vlg of	3104	4	3/1/2020	12	439,362	13	137,704	2	6,309



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Lawrence Vlg of	8004	2	3/1/2020	0	0	6	13,087	3	1,663
Leelanau Co	4501	5	1/1/2020	115	5,789,759	88	1,538,729	22	231,164
Leelanau CRC	4503	1	1/1/2020	16	785,841	31	467,439	9	85,103
Leoni Twp	3804	2	7/1/2020	7	264,434	26	414,111	22	328,105
Leslie City of	3313	4	7/1/2020	8	391,877	7	125,527	4	27,029
Leslie Twp	3319	1	7/1/2020	3	108,415	2	6,301	0	0
Lexington Vlg of	7708	2	7/1/2020	5	241,799	9	171,324	2	34,138
Lima Twp	8112	1	4/1/2020	6	107,976	4	30,651	0	0
Lincoln Park City of	8244	3	7/1/2020	59	2,806,083	137	3,369,908	12	256,922
Litchfield City of	3006	1	7/1/2020	9	417,253	6	112,517	1	12,331
Livingston Co	4703	14	1/1/2020	508	29,108,406	393	7,465,955	132	1,308,960
Livingston Co CMH Auth	4712	1	10/1/2020	77	4,262,712	66	1,133,707	46	481,389
Livingston CRC	4701	4	1/1/2020	64	3,936,031	62	1,414,676	6	79,042
Looking Glass Rgnl Fire CLD	2311	1		0	0	1	8,061	2	8,055
Loutit Dist Lib	7013	1	7/1/2020	17	621,106	7	100,527	2	12,124
Lowell City of	4104	5	7/1/2020	33	2,277,076	36	922,229	8	172,603
Luce Co	4804	8	1/1/2020	28	982,906	40	473,331	12	61,790
Luce Co Amb Svs	4806	1	1/1/2020	5	217,115	0	0	1	7,260
Luce CRC	4801	7	1/1/2020	17	761,478	34	851,160	3	58,111
Ludington City of	5302	2	1/1/2020	51	2,264,199	68	1,392,918	5	53,175
Luna Pier City of	5802	3	7/1/2020	2	96,573	14	397,803	3	22,801
Lyons Vlg of	3411	1	3/1/2020	0	0	2	18,825	0	0
Mackinac Co	4901	4	1/1/2020	21	933,269	67	1,116,712	10	112,882
Mackinac Co HC	4905	1	7/1/2020	1	25,150	2	31,214	0	0
Mackinac CRC	4903	3	1/1/2020	9	445,790	33	642,040	0	0
Mackinac Straits Hlth Sys	4902	2	7/1/2020	243	13,652,885	116	1,592,707	38	326,291
Mackinaw City Vlg of	1606	1	3/1/2020	6	360,056	1	27,222	1	15,066
Madison Chtr Twp of	4605	1	1/1/2020	16	876,333	7	92,204	1	15,377
Madison Heights City of	6308	6	7/1/2020	38	2,360,284	136	3,011,627	21	253,671
Manistee City of	5105	10	7/1/2020	51	2,827,295	55	1,258,534	6	114,922
Manistee Co	5101	14	10/1/2020	212	9,173,410	216	3,218,138	76	546,002
Manistee CRC	5103	6	10/1/2020	31	1,321,003	43	902,498	4	82,649
Manistee HC	5107	1	1/1/2020	8	311,486	4	29,268	2	13,388
Manistique City of	7504	4	7/1/2020	25	1,446,839	34	954,610	3	32,005
Manlius Twp	0311	1	4/1/2020	4	59,987	3	41,313	0	0
Manton City of	8304	2	12/1/2020	4	169,636	11	173,171	2	18,380
Marenisco Twp	2704	2	4/1/2020	3	144,570	2	26,435	0	0
Marine City City of CLD	7704	2		0	0	2	2,705	0	0
Marion Vlg of	6704	2	3/1/2020	4	151,318	6	47,054	1	607
Marlette City of	7405	1	7/1/2020	10	458,081	4	120,426	2	15,659
Marquette Brd of Light & Power	5209	7	10/1/2020	36	3,191,125	105	3,257,231	1	19,591
Marquette Chtr Twp	5215	2	1/1/2020	22	1,253,310	6	72,955	1	11,900
Marquette City of	5201	15	10/1/2020	122	6,486,736	137	3,689,354	17	234,324
Marquette Co	5202	15	1/1/2020	280	10,354,026	350	7,380,237	47	404,495
Marquette Co Solid Waste Mgmt	5213	4	7/1/2020	18	1,085,293	6	104,875	2	61,876
Marquette Co Trans Auth	5206	2	10/1/2020	24	971,087	22	227,754	1	6,903
Marquette CRC	5211	8	1/1/2020	54	3,079,076	77	1,915,023	17	151,711
Marshall Area Firefighters Amb	1313	1	7/1/2020	11	624,164	0	0	2	19,652
Marshall City of	1306	5	7/1/2020	44	2,879,640	96	2,498,275	16	272,805
Marshall Dist Lib	1309	1	7/1/2020	0	0	1	42,530	0	0
Mason City of	3304	7	7/1/2020	44	2,286,806	37	1,092,337	16	204,400
Mason Co	5301	6	1/1/2020	114	5,508,706	211	3,562,258	39	401,135
Mason Co Dist Lib	5303	1	1/1/2020	11	302,109	12	152,775	0	0
Mason CRC	5305	2	1/1/2020	37	1,768,083	24	413,236	4	35,525
Mason-Oceana 911	6403	2	1/1/2020	14	661,758	6	89,437	3	64,713
MBS Intl Arpt	0902	6	1/1/2020	25	1,296,417	21	687,671	4	61,313
Meceola Central Dispatch	5405	1	1/1/2020	16	751,717	11	129,796	5	36,839
Mecosta Co	5403	8	1/1/2020	35	1,822,272	124	2,258,692	33	294,895
Mecosta Co General Hosp CLD	5404	2		0	0	116	627,063	55	186,425
Mecosta CRC	5401	3	1/1/2020	42	1,741,100	60	829,108	7	72,448
Melvindale City of	8215	6	1/1/2020	12	929,896	98	3,357,704	4	143,207
Melvindale HC	8220	2	1/1/2020	4	185,503	6	108,664	3	26,991
Menominee City of	5501	4	9/1/2020	34	1,547,503	53	617,869	11	145,368
Menominee Co	5502	10	10/1/2020	62	3,424,647	100	1,407,553	12	151,439
Menominee CRC	5503	4	1/1/2020	5	292,630	13	314,242	1	30,001
Meridian Chtr Twp	3315	11	1/1/2020	114	6,473,935	93	3,462,837	28	362,928
MERS	2308	2	1/1/2020	128	11,048,903	44	975,987	39	618,835
Metamora Twp	4409	1	4/1/2020	5	278,957	4	55,540	1	17,642
Metro Police Auth of Genesee Co	2532	3	1/1/2020	23	1,657,994	14	392,688	4	44,757
Mich Muni Risk Mgmt Auth	8237	1	7/1/2020	1	263,941	0	0	0	0
Mich S Central Power Agcy	3002	3	7/1/2020	5	539,760	34	901,451	24	608,406
Middleville Vlg of	0803	6	1/1/2020	7	385,026	11	146,670	3	12,265
Midland City of	5601	8	7/1/2020	144	8,713,000	345	11,207,238	20	391,335
Midland Co Central Disp Auth	5604	2	1/1/2020	17	988,104	6	101,979	3	86,592
Midland CRC	5602	5	1/1/2020	41	2,183,711	59	1,418,624	0	0
Mid-Mich Dist Hlth Dept	5901	4	10/1/2020	68	3,080,999	58	578,983	36	275,262
Mid-Mich Lib League	8306	1	10/1/2020	1	69,794	4	59,925	2	15,222
Mid-Peninsula Lib Coop CLD	3609	1		0	0	3	22,311	0	0



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Milan City of	5801	8	7/1/2020	8	601,272	45	1,009,852	6	120,840
Milan Lib	5806	2	7/1/2020	2	96,600	2	31,059	0	0
Milford Vlg of	6313	7	7/1/2020	21	1,595,515	28	872,947	10	115,101
Millington Vlg of	7904	2	3/1/2020	6	258,691	7	121,871	0	0
Missaukee Co	5702	4	10/1/2020	30	1,523,067	18	417,677	8	88,758
MOA Solid Waste Mgmt Auth	6002	1	1/1/2020	6	230,801	2	46,211	1	12,755
Monroe HC	5808	1	10/1/2020	10	482,030	6	173,330	2	16,160
Montague City of	6112	5	7/1/2020	15	1,023,881	18	419,351	1	8,612
Montcalm Co	5907	6	10/1/2020	70	3,989,876	100	1,747,351	10	128,501
Montcalm CRC	5905	5	10/1/2020	50	2,511,812	52	1,212,456	4	61,875
Montmorency Co	6001	5	1/1/2020	47	1,854,981	72	839,634	16	93,727
Montrose City of	2509	2	7/1/2020	4	170,865	7	74,823	6	19,218
Mt. Morris Chtr Twp	2503	7	4/1/2020	45	2,447,691	63	2,206,681	6	45,644
Mt. Pleasant City of	3701	5	1/1/2020	86	4,236,062	95	1,974,419	16	207,325
Muir Vlg of	3405	1	7/1/2020	0	0	2	21,714	2	16,226
Mundy Chtr Twp of	2517	1	1/1/2020	11	466,344	6	121,374	3	39,765
Munising City of	0202	3	7/1/2020	20	945,437	29	546,315	5	33,658
Muskegon Area Dist Lib	6117	2	1/1/2020	22	1,079,931	8	123,303	0	0
Muskegon Chtr Twp	6108	4	1/1/2020	28	1,690,541	44	1,253,265	4	66,376
Muskegon City of	6116	9	7/1/2020	98	6,565,169	325	8,119,518	35	680,084
Muskegon Co	6103	19	10/1/2020	412	23,625,834	1,113	19,742,846	190	2,547,272
Muskegon CRC	6101	11	1/1/2020	72	3,668,859	95	1,748,005	17	143,383
Muskegon HC	6113	1	10/1/2020	6	287,051	2	49,323	1	14,690
Muskegon Heights City of	6102	7	7/1/2020	58	2,851,603	105	2,656,887	15	149,247
Muskegon Heights HC	6115	1	4/1/2020	8	382,407	4	48,816	1	673
N Houghton Co Wtr&Swg Auth	3106	2	1/1/2020	3	160,649	1	24,933	1	4,337
N Muskegon City of	6104	4	12/1/2020	7	424,388	21	434,634	4	28,779
Nashville Vlg of	0807	1	3/1/2020	8	333,505	0	0	1	1,242
Negaunee City of	5203	2	1/1/2020	25	1,206,503	44	965,934	7	95,550
Negaunee Twp	5217	1	4/1/2020	7	299,421	3	38,038	1	732
Network180	4109	1	10/1/2020	45	3,230,003	65	2,009,047	39	635,786
New Baltimore City of	5016	8	7/1/2020	56	3,193,720	41	847,320	11	125,812
New Buffalo City of	1113	1	7/1/2020	21	1,068,529	7	111,167	8	26,252
New Buffalo Twp	1121	1	7/1/2020	11	495,281	1	5,620	0	0
Newaygo CMH	6207	1	10/1/2020	0	0	8	301,749	1	4,601
Newaygo Co	6201	8	10/1/2020	14	710,825	117	2,161,973	18	269,788
Newaygo CRC	6212	7	10/1/2020	45	2,152,976	48	695,134	3	20,484
Newaygo MCF	6204	4	1/1/2020	62	2,863,470	93	893,990	18	98,928
Newaygo Soil & Wtr Cnsrvn Dist	6205	1	9/1/2020	3	139,658	3	14,986	0	0
Newberry Vlg of	4802	7	1/1/2020	17	700,673	29	383,066	5	25,200
Niles City of	1115	4	10/1/2020	109	5,947,038	140	2,815,732	5	50,204
Niles Dist Lib	1105	2	10/1/2020	12	431,787	7	56,806	2	17,321
Northern Lakes CMH Auth	2808	3	1/1/2020	12	678,746	118	2,267,248	9	112,207
Northfield Twp	8117	1	7/1/2020	11	612,722	0	0	4	64,989
Northpointe Bhvrl Hlth Sys	2207	4	10/1/2020	48	2,479,683	53	792,331	38	318,991
Northville Chtr Twp	8230	5	1/1/2020	99	8,217,324	39	1,895,569	6	96,899
Northville City of	8208	10	7/1/2020	5	451,293	63	1,704,144	11	171,387
Northville Dist Lib	8229	1	12/1/2020	14	833,072	13	208,732	2	20,082
Norton Shores City of	6106	13	7/1/2020	85	6,031,441	111	2,842,771	9	162,417
Norway City of	2204	4	7/1/2020	20	1,267,357	41	1,277,750	2	30,315
Nottawaseppi Huron Band	8403	1	1/1/2020	19	1,104,590	1	3,743	2	10,654
Novi City of	6320	10	7/1/2020	142	10,645,669	200	6,249,710	48	777,757
NW Mich Cmnty Hlth Agcy	1502	1	1/1/2020	5	341,188	38	496,026	3	17,454
NW Rgnl Arpt Comm	2805	2	1/1/2020	19	1,186,618	18	444,781	3	25,176
Oceana Co	6402	7	1/1/2020	130	6,294,489	179	2,381,255	37	496,164
Oceola Twp	4717	1	7/1/2020	12	420,589	4	50,430	1	3,709
Ogemaw Co	6502	4	1/1/2020	40	1,755,714	111	1,863,478	14	93,440
Ogemaw Co EMS Auth	6508	2	10/1/2020	23	1,229,493	9	153,654	2	34,086
Ogemaw CRC	6503	3	10/1/2020	30	1,339,481	36	782,136	1	3,612
Olive Twp	7009	1	4/1/2020	2	52,150	4	27,336	0	0
Onaway City of	7105	2	4/1/2020	3	136,918	3	42,525	4	21,244
Ontonagon Co	6602	6	1/1/2020	43	1,670,050	46	586,198	11	88,488
Ontonagon Co Economic Dev Corp	6605	1	1/1/2020	0	0	1	10,371	0	0
Ontonagon CRC	6604	2	1/1/2020	37	2,041,739	58	1,625,329	1	15,632
Ontonagon Vlg of	6603	2	4/1/2020	10	417,022	120	1,283,486	31	214,091
Orchard Lake City of	6312	5	7/1/2020	2	191,983	14	480,995	1	8,110
Oronoko Chtr Twp	1114	2	1/1/2020	10	604,882	7	137,234	5	25,680
Osceola Co	6701	9	1/1/2020	108	4,803,458	82	859,631	53	436,837
Osceola CRC	6703	3	1/1/2020	25	1,086,441	40	596,108	0	0
Oscoda Chtr Twp	3503	2	1/1/2020	10	569,253	12	279,172	7	40,749
Oscoda Co	6801	6	1/1/2020	55	2,108,771	61	686,608	14	80,866
Oscoda Co Lib	6803	1	1/1/2020	1	40,969	0	0	0	0
Oscoda Wurtsmith Arpt Auth I	6802	1	10/1/2020	5	208,602	3	29,948	0	0
Otisville Vlg of	2506	2	7/1/2020	3	153,540	5	81,093	1	1,545
Otsego Co	6902	20	1/1/2020	109	4,741,881	111	1,381,347	46	430,779
Otsego CRC	6901	4	1/1/2020	31	1,609,345	50	871,516	8	133,386
Ottawa Co	7003	16	10/1/2020	500	32,079,263	602	14,108,028	182	2,425,679
Ottawa Co Central Disp Auth	7008	2	1/1/2020	3	178,345	12	172,775	1	8,197



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Ottawa CRC	7002	5	10/1/2020	76	4,939,910	138	4,127,322	15	212,792
Otter Lake Vlg of	4408	1	3/1/2020	0	0	1	15,560	0	0
Owosso City of	7607	2	7/1/2020	6	427,743	14	396,218	1	15,138
Oxford Fire Department	6327	3	1/1/2020	16	1,259,356	17	323,957	2	29,980
Oxford Vlg of	6326	2	7/1/2020	8	451,627	6	157,490	6	70,443
Parchment City of	3901	1	1/1/2020	3	130,306	16	231,029	3	48,179
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	7	10/1/2020	24	1,221,995	261	4,447,448	55	433,566
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	1	4/1/2020	3	203,531	2	87,316	0	0
Paw Paw Vlg of	8002	4	3/1/2020	30	1,748,518	25	614,501	7	65,165
Pellston Vlg of	2404	1	1/1/2020	3	92,810	1	17,036	0	0
Pennfield Chtr Twp	1312	1	4/1/2020	15	723,225	7	109,245	2	26,866
Pentwater Vlg of	6401	1	4/1/2020	9	468,045	15	148,809	3	24,567
Perrinton Vlg of	2909	1	3/1/2020	1	48,314	0	0	1	5,874
Petersburg City of	5807	1	7/1/2020	7	244,699	0	0	2	23,134
Petoskey City of	2402	5	1/1/2020	65	4,233,949	79	1,666,205	9	133,352
Pewamo Vlg of	3407	1	4/1/2020	2	93,392	0	0	0	0
Pigeon Vlg of	3203	2	3/1/2020	5	282,818	4	59,613	3	24,254
Pinckney Vlg of	4706	2	3/1/2020	12	541,600	5	142,073	8	26,264
Pinconning City of	0904	4	7/1/2020	5	167,034	15	172,898	1	16,780
Pittsfield Chtr Twp	8110	16	1/1/2020	129	8,607,588	62	1,430,183	33	362,472
Pleasant Ridge City of	6301	7	7/1/2020	10	632,814	17	412,865	6	30,772
Plymouth Chtr Twp of	8238	5	1/1/2020	38	3,498,016	36	1,839,674	6	159,447
Plymouth City of	8202	8	7/1/2020	0	0	55	1,553,551	6	23,814
Plymouth Dist Lib	8221	2	1/1/2020	13	822,228	12	339,604	1	3,365
Pokagon Band of Potawatomi	8401	1	1/1/2020	325	18,880,018	31	373,419	35	358,452
Port Austin Area Swr&Wtr Auth	3210	1	3/1/2020	0	0	2	8,739	0	0
Port Austin Vlg of	3208	1	3/1/2020	4	140,455	6	51,413	1	840
Port Huron Chtr Twp	7711	1	1/1/2020	18	1,000,334	11	194,081	3	38,809
Port Huron City of	7702	11	7/1/2020	242	13,975,269	388	11,996,196	36	382,049
Port Huron HC	7712	4	7/1/2020	27	1,141,324	24	589,966	2	18,352
Port Sanilac Vlg of	7403	2	7/1/2020	4	158,405	4	76,194	1	7,368
Port Sheldon Twp	7018	1	4/1/2020	7	186,364	3	68,383	0	0
Portland City of	3401	6	7/1/2020	32	2,119,458	40	870,932	12	150,332
Potterville City of	2313	1	7/1/2020	9	337,271	3	64,092	5	27,449
Presque Isle Co	7104	6	7/1/2020	69	2,474,389	67	904,651	16	114,973
Presque Isle CRC	7101	4	1/1/2020	27	1,174,112	44	772,349	0	0
PRIDE Youth Programs CLD	6210	1		0	0	2	45,930	0	0
Ravenna Vlg of	6111	1	1/1/2020	2	118,216	1	21,801	1	5,749
Reading City of	3003	1	7/1/2020	4	172,652	4	16,694	4	5,609
Redford Chtr Twp of	8209	10	4/1/2020	96	4,620,161	177	3,920,737	32	310,588
Redford Twp Dist Lib	8228	1	4/1/2020	7	398,294	8	160,789	3	15,539
Reed City City of	6702	3	7/1/2020	17	830,231	26	389,159	9	49,319
Richfield Twp (Genesee Co)	2514	3	7/1/2020	14	735,509	9	292,619	6	49,668
Richfield Twp (Roscommon Co)	7202	4	4/1/2020	12	435,807	13	175,271	3	32,558
Richland Twp	7310	3	4/1/2020	13	397,057	10	361,674	3	3,865
Richmond City of	5012	1	7/1/2020	10	524,714	4	113,041	0	0
Rochester City of	6307	6	7/1/2020	38	2,761,120	53	1,442,937	4	102,535
Rockford City of	4103	6	7/1/2020	29	1,809,933	28	487,810	13	170,578
Rockwood City of	5810	3	7/1/2020	13	684,713	8	114,514	4	48,776
Rockwood HC	8267	1	4/1/2020	1	50,000	0	0	0	0
Rogers City City of	7102	3	7/1/2020	20	1,023,881	26	745,978	8	74,162
Romeo Dist Lib	5006	2	7/1/2020	3	187,629	20	253,700	6	57,739
Romeo Vlg of	5005	5	7/1/2020	22	1,179,097	24	505,860	3	23,858
Romulus City of	8225	7	7/1/2020	62	4,233,306	64	3,375,220	8	217,556
Roosevelt Park City of	6107	3	12/1/2020	6	462,347	20	359,918	8	76,747
Roscommon Co	7201	6	1/1/2020	70	3,455,391	112	1,651,709	37	392,434
Roscommon Co Trans Auth	7205	1	10/1/2020	18	638,288	16	235,023	0	0
Rose City City of	6504	1	7/1/2020	4	139,295	4	45,394	2	6,228
Rose Twp	6506	1	4/1/2020	5	44,460	3	7,581	0	0
Royal Oak Chtr Twp of	6306	5	1/1/2020	2	70,752	15	219,916	1	469
Saginaw Chtr Twp	7314	2	4/1/2020	40	2,713,490	31	1,329,010	8	102,823
Saginaw City of	7301	14	7/1/2020	221	12,266,069	842	29,340,350	19	319,982
Saginaw Co	7303	21	10/1/2020	21	1,081,792	573	13,122,617	43	340,134
Saginaw Co 911 Com Ctr	7316	4	10/1/2020	1	69,298	33	1,059,983	3	91,218
Saginaw Co CMH	7318	5	10/1/2020	7	367,749	99	1,518,444	20	130,393
Saginaw CRC	7304	8	1/1/2020	72	4,053,797	107	2,315,903	8	118,214
Saginaw HC	7321	4	7/1/2020	6	211,656	12	319,987	6	90,073
Saginaw Pub Lib of	7317	1	7/1/2020	10	580,752	6	56,740	8	74,200
Saginaw Trans Sys Auth	7319	1	10/1/2020	21	932,248	13	117,156	10	83,172
Saginaw-Midland Muni Wtr Corp	7305	2	7/1/2020	3	178,296	16	434,995	2	91,354
Saline City of	8105	5	7/1/2020	39	2,871,393	73	1,778,660	10	79,732
Sandusky City of	7402	3	3/1/2020	19	862,268	15	326,075	4	50,949
Sandusky Dist Lib	7404	1	1/1/2020	1	51,880	1	4,656	0	0
Sanilac CRC	7410	1	1/1/2020	51	2,528,174	16	377,808	0	0
Saranac HC	3413	1	4/1/2020	4	170,927	2	36,063	0	0
Saugatuck City of	0307	2	7/1/2020	9	486,191	13	153,599	1	4,739
Saugatuck Twp	0305	2	7/1/2020	2	106,893	4	58,173	2	22,963
Saugatuck Twp Fire Dist	0313	1	7/1/2020	5	250,382	1	31,803	0	0



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Results by Municipality

Appendix A: Participant Information

Municipality Name	Number	Number of Divisions	Fiscal Year Beginning	Participant Information					
				Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Sault Ste. Marie City of	1701	8	7/1/2020	78	3,853,471	94	2,145,243	9	99,683
Sault Ste. Marie HC	4906	1	4/1/2020	9	361,126	5	164,636	2	12,939
Sault Ste. Marie Tribe of Chippewa Indians	8404	1	1/1/2020	24	1,168,841	1	1,020	1	1,595
SCCMUA	1905	2	1/1/2020	12	668,795	12	208,380	5	69,371
Schoolcraft Co	7503	15	10/1/2020	144	5,175,008	129	2,271,501	47	324,045
Schoolcraft Co Trans Auth	7506	2	10/1/2020	9	313,823	4	81,734	0	0
Schoolcraft CRC	7501	2	10/1/2020	18	1,008,908	42	1,213,833	5	88,309
Schoolcraft Memorial Hosp	7505	5	1/1/2020	20	983,559	77	1,518,208	21	386,936
Scio Twp	8116	2	4/1/2020	22	1,590,065	4	37,766	0	0
Scottville City of	5308	1	7/1/2020	6	234,953	2	30,211	2	11,127
SE Oakland Co Rsrc Rec Auth	6310	3	7/1/2020	19	1,154,608	30	432,355	4	48,830
SE Oakland Co Wtr Auth	6309	4	7/1/2020	16	958,935	25	737,971	1	548
Sebewaing Vlg of	3205	6	4/1/2020	17	1,139,065	21	535,604	4	64,682
SEMCOG	8210	2	7/1/2020	61	4,416,417	62	1,867,082	27	305,867
Shepherd Vlg of	3704	1	3/1/2020	6	285,747	2	13,070	0	0
Shiawassee Co	7602	30	1/1/2020	485	19,194,637	387	7,775,923	137	1,307,658
Shiawassee Council on Aging	7605	1	1/1/2020	6	186,689	8	70,846	1	1,344
Shiawassee CRC	7601	6	1/1/2020	36	1,851,826	49	1,367,827	10	281,478
Shiawassee Dist Lib	7606	2	12/1/2020	7	383,799	3	88,266	1	9,313
Shiawassee Hlth & Wellness	7609	4	10/1/2020	121	5,735,556	66	756,011	58	455,063
Sims Whitney Util Auth	0606	2	7/1/2020	2	115,022	3	29,705	0	0
SMART	8216	10	7/1/2020	815	43,850,988	876	15,814,159	155	1,668,645
South Haven Area ESA	8005	4	1/1/2020	15	1,063,393	6	251,854	0	0
South Haven City of	8001	7	7/1/2020	83	5,265,408	83	1,727,585	16	194,491
South Lyon City of	6315	5	7/1/2020	37	2,588,286	30	712,283	8	120,055
Southgate City of	8262	1	7/1/2020	39	2,216,994	83	2,155,444	4	66,956
Sparta Vlg of	4107	5	1/1/2020	16	891,936	11	218,114	3	31,184
Spring Lake Dist Lib	7016	3	1/1/2020	6	307,946	2	58,100	1	5,620
Spring Lake Vlg of	7015	3	7/1/2020	7	316,105	8	295,818	8	122,783
Springfield City of	1303	4	7/1/2020	15	743,408	40	799,459	16	296,072
St Charles Vlg of	7308	4	4/1/2020	10	473,984	13	294,906	3	22,321
St Clair City of	7703	8	10/1/2020	23	1,450,726	48	1,495,136	5	48,620
St Clair HC	7715	1	1/1/2020	0	0	4	77,726	0	0
St Clair Shores HC	5007	1	1/1/2020	9	457,130	12	215,844	0	0
St Ignace City of	4904	6	1/1/2020	31	1,364,159	34	801,336	5	30,653
St Johns City of	1902	9	7/1/2020	13	751,578	54	1,342,697	4	38,157
St Joseph Co	7803	5	1/1/2020	170	8,613,842	143	2,557,009	49	419,339
St Joseph Twp	1122	1	1/1/2020	12	739,940	0	0	0	0
St Louis City of	2902	4	7/1/2020	4	267,858	29	616,215	5	25,918
St Louis HC	2908	1	7/1/2020	3	146,718	1	21,858	0	0
Stambaugh Twp	3615	1	4/1/2020	1	46,823	1	5,302	0	0
Standish City of	0601	1	7/1/2020	1	39,045	11	222,397	1	10,081
Stanton City of CLD	5903	1		0	0	2	5,670	0	0
Stephenson City of	5504	2	7/1/2020	3	145,463	2	17,643	0	0
Sterling Vlg of	0605	1	4/1/2020	1	46,868	1	4,976	0	0
Stockbridge Vlg of	3316	1	3/1/2020	3	140,310	4	51,921	3	43,921
Sturgis HC	7805	1	10/1/2020	3	115,692	0	0	1	4,161
Summit Twp	3803	4	4/1/2020	35	2,051,603	29	762,756	4	73,149
Sumpter Twp	8226	3	4/1/2020	26	1,905,885	12	320,584	2	57,683
Superior Chtr Twp	8109	2	1/1/2020	26	1,844,614	13	423,572	1	11,112
Superior Dist Lib	1702	1	7/1/2020	13	386,312	6	60,293	0	0
Superiorland Lib Coop	5208	2	10/1/2020	0	0	4	84,543	1	4,390
Suttons Bay Bingham Fire Auth	4506	1	4/1/2020	10	734,541	1	25,734	1	12,356
SW Mich Comm Amb Svcs	1119	1	7/1/2020	20	1,108,766	3	99,859	2	48,654
SW Shiawassee ESA	7611	1	1/1/2020	10	555,938	2	15,826	2	17,097
Swan Creek Twp	7309	1	4/1/2020	6	147,629	9	75,089	0	0
Swartz Creek City of	2504	2	7/1/2020	2	107,183	15	528,836	0	0
Sylvan Lake City of	6314	2	7/1/2020	5	366,787	7	111,810	1	7,728
Tawas Police Auth	3504	1	7/1/2020	1	57,717	4	73,732	3	41,686
Taylor HC	8231	1	4/1/2020	4	229,368	2	26,854	0	0
The Lib Network	8218	3	10/1/2020	32	1,281,590	29	382,396	5	53,807
Three Rivers City of	7801	10	7/1/2020	62	3,336,188	54	1,103,443	27	333,821
Tittabawassee Twp	7322	1	4/1/2020	15	847,229	5	135,295	1	24,644
Traverse Area Dist Lib	2807	1	1/1/2020	30	1,401,775	31	418,520	6	57,157
Traverse City City of	2801	5	7/1/2020	98	6,221,439	126	2,716,531	23	234,005
Traverse City Light & Power	2811	4	7/1/2020	34	2,679,680	60	2,113,517	6	91,759
Trenton City of	8203	2	7/1/2020	11	788,396	123	3,546,971	1	7,652
Tri-County Aging Consortium	3307	3	10/1/2020	97	3,431,432	64	529,768	20	141,198
Trio Council on Aging Inc CLD	6507	1		0	0	3	23,352	1	3,287
Tuscarora Twp	1604	1	7/1/2020	9	545,597	4	87,167	1	18,941
Tuscola Co	7902	17	1/1/2020	124	5,870,215	133	2,048,617	26	310,956
Tuscola Co CMH	7907	1	10/1/2020	110	5,142,820	67	771,415	21	132,627
Tuscola Co Hlth Dpt	7901	2	1/1/2020	23	1,124,289	37	690,828	0	0
Tuscola Co MCF	7906	2	1/1/2020	343	12,282,126	96	815,885	37	156,762
Tuscola CRC	7908	3	1/1/2020	22	1,077,406	24	427,548	5	53,086
Twin City Pub Safety Auth CLD	3610	1		0	0	2	6,415	1	2,929
Ugly Vlg of	3212	1	3/1/2020	2	89,548	2	50,518	2	25,154
Utica City of	5008	4	7/1/2020	17	1,011,939	15	390,147	0	0



Municipal Employees' Retirement System of Michigan - As of December 31, 2018
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Appendix A: Participant Information

Municipality Name	Number	Number of Divisions	Fiscal Year Beginning	Participant Information					
				Number of Actives	Annual Salary	Number of Retirees	Annual Benefit in Force	Number of Vested Former	Annual Deferred Benefits
Van Buren Co	8006	10	10/1/2020	262	12,645,986	107	2,000,417	26	312,347
Van Buren Dist Lib	8007	2	1/1/2020	11	429,972	7	118,846	3	16,413
Van Buren Twp	8236	2	1/1/2020	49	3,838,113	12	608,466	7	198,654
Vassar City of	7903	3	7/1/2020	5	293,918	29	552,477	8	67,256
Vevay Twp	3318	2	4/1/2020	4	144,641	6	56,077	0	0
Vicksburg Dist Lib	3904	1	3/1/2020	0	0	3	14,465	1	716
Vicksburg Vlg of	3902	2	7/1/2020	5	267,488	11	168,047	15	126,782
Vienna Chtr Twp of	2522	1	1/1/2020	4	195,929	8	141,079	1	10,093
W Iron Co Swr Auth	3612	3	7/1/2020	3	153,684	4	89,849	1	3,902
W Mich CMH Sys	5304	1	10/1/2020	1	70,457	20	411,831	3	43,948
W Mich Shoreline Rgnl Dev Comm	6110	1	10/1/2020	11	594,913	9	278,763	3	12,557
W UP Dist Hlth Dept	3101	2	1/1/2020	18	707,264	99	1,092,886	41	331,282
Wakefield City of	2701	1	7/1/2020	12	594,782	20	384,559	2	25,159
Walker City of	4112	4	7/1/2020	23	1,704,383	59	1,576,872	3	63,671
Walled Lake City of	6324	6	7/1/2020	21	1,408,639	32	891,423	14	230,099
Washtenaw Co	8113	4	1/1/2020	299	22,458,157	98	4,168,776	32	597,074
Washtenaw CRC	8102	6	10/1/2020	122	7,283,859	136	4,092,539	15	262,638
Wayland City of	0304	2	7/1/2020	20	1,079,594	26	486,579	7	48,988
Wayne City of	8242	22	7/1/2020	63	4,001,688	207	7,849,197	21	422,434
Wayne HC	8252	1	1/1/2020	3	145,284	2	57,180	0	0
Webberville Vlg of	3314	1	4/1/2020	6	250,238	3	28,816	4	24,715
West Branch City of	6505	6	7/1/2020	19	921,930	21	396,520	1	14,760
West Branch Dist Lib	6509	1	7/1/2020	3	85,691	1	20,231	0	0
Westland City of	8211	16	7/1/2020	94	5,770,108	308	9,655,470	38	509,275
Westphalia Vlg of	1907	1	3/1/2020	1	73,519	3	57,146	0	0
Wexford Co	8302	10	1/1/2020	123	5,328,159	107	1,822,040	39	442,878
Wexford CRC	8303	4	1/1/2020	28	1,249,023	49	855,794	12	133,236
White Cloud City of	6206	2	7/1/2020	7	281,458	9	74,991	2	14,498
White Cloud Cmnty Lib	6208	2	7/1/2020	4	140,690	1	11,946	1	1,781
White Cloud/Sherman Util	6211	1	7/1/2020	3	141,922	2	24,546	0	0
White Lake Chtr Twp	6325	8	1/1/2020	84	5,401,007	50	1,612,926	12	202,585
White Pigeon Vlg of	7804	1	4/1/2020	3	145,481	2	14,295	1	5,570
White Pine Dist Lib	5904	2	7/1/2020	1	26,222	5	25,689	0	0
Whitehall City of	6105	6	7/1/2020	20	1,330,267	24	395,700	3	23,252
Willard Pub Lib	1308	2	7/1/2020	36	1,982,078	7	113,502	2	15,643
Williamston City of	3310	5	7/1/2020	15	790,231	22	355,366	4	34,541
Wixom City of	6316	6	7/1/2020	23	1,802,784	58	2,036,827	13	156,464
Wolverine Lake Vlg of	6329	3	7/1/2020	11	648,762	11	193,369	2	59,687
WUPPDR	3108	1	10/1/2020	5	193,306	4	122,224	1	15,851
Ypsilanti City of	8101	7	7/1/2020	40	2,031,338	52	963,774	19	167,333
Ypsilanti Cmnty Util Auth	8106	6	9/1/2020	108	6,970,791	122	3,456,743	18	287,019
Ypsilanti HC	8115	1	7/1/2020	2	151,688	4	71,418	2	19,509
Ypsilanti Twp of	8104	3	1/1/2020	75	3,980,690	63	1,200,243	11	146,273
Totals - Active Groups	729	2,950		33,891	1,812,758,776	41,038	907,204,331	8,495	92,944,351
Totals - Closed Groups	16	20		0	0	312	1,736,728	110	314,162
Totals- MERS	745	2,970		33,891	1,812,758,776	41,350	908,941,059	8,605	93,258,513



MERS 12/31/2018 Valuation – Results By Municipality

Appendix B: Accrued Liabilities and Assets

Municipal Employees' Retirement System of Michigan - As of December 31, 2018
Results by Municipality
Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
21st Dist Ct	8243	430,292	43,611	2,555,869	0	3,029,772	1,908,391	63.0%
23rd Jud Dist Ct	8223	1,382,296	440,498	2,370,032	194	4,193,020	2,980,178	71.1%
26th Jud Cir Ct	0403	991,388	401,237	2,710,309	0	4,102,934	3,430,240	83.6%
34th Dist Ct	8235	5,474,546	274,765	4,706,945	6,387	10,462,643	6,266,595	59.9%
35th Dist Ct	8234	375,876	41,984	4,626,751	16,938	5,061,549	2,690,788	53.2%
41 B Dist Ct	5014	3,577,220	864,571	5,942,296	23,743	10,407,830	7,574,119	72.8%
Addison Fire Dept	4607	328,320	61,055	0	0	389,375	354,412	91.0%
Adrian City of	4601	14,592,425	1,947,513	45,580,304	242,547	62,362,789	41,359,509	66.3%
Aitkin Memorial Dist Lib	7407	0	96,323	0	0	96,323	158,833	164.9%
Albion City of	1301	3,201,978	466,158	10,792,621	2,369	14,463,126	13,313,905	92.1%
Alcona Co	0101	5,593,355	268,550	9,614,809	1,658	15,478,372	10,380,846	67.1%
Alger Co	0203	4,418,012	97,906	9,669,238	4,536	14,189,692	9,756,670	68.8%
Alger CRC	0201	3,460,774	202,410	6,643,259	6,514	10,312,957	6,612,900	64.1%
Algonac City of	7707	845,233	1,313,656	4,262,148	11,552	6,432,589	5,119,995	79.6%
Allegan City of	0309	2,752,757	281,842	3,149,957	0	6,184,556	4,484,340	72.5%
Allegan Co	0302	19,674,049	3,624,276	46,696,689	63,581	70,058,595	66,087,882	94.3%
Allegan CRC	0301	4,747,626	190,976	19,587,824	37,672	24,564,098	16,316,931	66.4%
Alma City of	2901	8,793,085	588,975	14,666,065	72,003	24,120,128	18,319,553	76.0%
Almont Vlg of	4407	1,305,724	224,023	1,291,057	744	2,821,548	2,210,573	78.3%
Alpena Co	0401	7,252,497	1,147,983	15,001,783	33,469	23,435,732	14,542,062	62.1%
Alpena CRC	0402	3,130,903	61,121	9,864,326	0	13,056,350	9,471,846	72.5%
Alpena HC	0406	2,118,227	0	377,872	79	2,496,178	2,562,861	102.7%
Alpena Sr Citizens Ctr	0404	0	0	705,690	0	705,690	64,752	9.2%
Alpha Vlg of	3614	20,249	13,025	0	0	33,274	72,725	218.6%
Antrim Co	0502	25,853,799	4,070,992	19,227,499	99,431	49,251,721	36,760,104	74.6%
Antrim CRC	0501	6,397,081	770,298	7,449,015	0	14,616,394	7,718,007	52.8%
Arenac Co	0603	5,133,464	1,071,597	6,883,860	8,457	13,097,378	9,783,995	74.7%
Arenac CRC	0604	1,835,420	25,656	4,906,355	3,028	6,770,459	2,707,313	40.0%
Armada Twp	5022	44,635	0	0	1,940	46,575	59,573	127.9%
Ash Twp	5804	464,724	53,708	417,958	0	936,390	515,810	55.1%
Au Gres City of	0602	244,174	0	2,004,456	0	2,248,630	1,563,004	69.5%
Auburn City of	0905	3,356	118,528	1,695,037	1,736	1,818,657	907,312	49.9%
Bad Axe Area Dist Lib	3214	167,633	0	0	0	167,633	167,402	99.9%
Bad Axe City of	3211	2,814,473	50,667	5,700,880	1,570	8,567,590	5,074,581	59.2%
Bancroft Vlg of	7610	0	27,019	66,484	0	93,503	29,158	31.2%
Bangor City of	8003	61,806	167,561	1,351,482	1,188	1,582,037	2,089,634	132.1%
Baraga Co	0702	3,704,007	222,819	3,448,329	0	7,375,155	5,189,402	70.4%
Baraga Co Memorial Hosp	0703	5,794,260	1,995,320	14,411,739	2,132	22,203,451	17,454,376	78.6%
Baraga CRC	0701	2,154,780	134,911	5,254,425	0	7,544,116	3,976,935	52.7%
Baraga Vlg of	0704	574,817	270,315	3,170,333	0	4,015,465	1,595,698	39.7%
Baroda Lake Twp Police Dept	1109	418,895	3,943	116,569	0	539,407	417,286	77.4%
Barry Co	0802	37,380,305	4,635,219	37,292,107	201,940	79,509,571	63,839,748	80.3%
Barry Co CMH Auth	0804	5,227,038	1,408,715	3,786,771	92,509	10,515,033	8,852,861	84.2%
Barry Eaton Dist Hlth Dept	2303	6,315,883	2,304,016	12,527,918	127,627	21,275,444	15,754,721	74.1%
Barton Hills Vlg of	8107	615,846	0	277,094	0	892,940	730,939	81.9%
Bates Twp	3616	0	0	292,923	0	292,923	119,479	40.8%
Bath Chtr Twp	1909	4,188,077	220,063	4,200,834	10,427	8,619,401	6,676,020	77.5%
Battle Creek City of	1302	43,054,242	4,452,829	103,366,064	187,259	151,060,394	87,380,611	57.8%
Bay Area Trans Auth	2810	3,504,499	578,729	3,137,929	109,126	7,330,283	7,203,994	98.3%
Bay City City of	0901	9,821,248	1,085,228	62,739,526	6,615	73,652,617	57,562,755	78.2%
Bay City HC	0906	1,016,445	0	7,956,539	0	8,972,984	8,533,915	95.1%
Bay Metro Trans Auth	0907	9,144,156	363,772	9,213,532	67	18,721,527	11,495,696	61.4%
Beecher Metro Dist Swg&Wtr	2501	1,945,329	169,437	4,800,534	0	6,915,300	4,951,529	71.6%
Belding City of	3410	373,945	15,339	2,136,235	17,818	2,543,337	1,277,981	50.2%
Belleville City of	8213	2,255,193	305,088	6,212,709	3,027	8,776,017	4,546,710	51.8%
Benton Harbor City of	1120	3,069,168	301,494	23,185,295	82,401	26,638,358	10,234,842	38.4%
Benzie Co	1003	7,627,900	1,363,290	10,521,755	54,793	19,567,738	13,243,598	67.7%
Benzie Co Comm on Aging	1006	0	356,822	906,704	0	1,263,526	711,031	56.3%
Benzie Co MCF (The Maples)	1004	2,774,172	1,191,426	5,691,645	102,981	9,760,224	7,776,508	79.7%
Benzie CRC	1001	1,324,922	505,634	6,003,079	0	7,833,635	3,184,915	40.7%
Benzie Shores Dist Lib	1005	0	0	349,562	0	349,562	356,242	101.9%
Benzie Trans Auth	1007	513,696	3,522	250,210	10,630	778,058	961,422	123.6%
Benzie/Leelanau Dist Hlth Dept	4504	542,606	0	688,444	0	1,231,050	873,510	71.0%
Berkley City of	6304	3,934,535	972,119	16,209,028	95,963	21,211,645	11,428,410	53.9%
Berrien Springs Vlg of	1102	596,512	148,795	1,090,088	0	1,835,395	1,553,193	84.6%
Bessemer City of	2702	1,593,436	15,907	1,073,844	3,053	2,686,240	1,858,675	69.2%
Beverly Hills Vlg of	6321	6,223,983	1,326,549	18,262,230	186	25,812,948	21,789,112	84.4%
Big Rapids City of	5402	2,818,598	185,691	12,159,842	0	15,164,131	9,851,635	65.0%
Big Rapids HC	5406	1,201,140	182,213	1,075,180	0	2,458,533	1,972,591	80.2%
Bingham Farms Vlg of	6332	178,232	0	222,212	0	400,444	345,220	86.2%
Birch Run Vlg of	7315	1,010,124	81,576	815,486	4,610	1,911,796	1,749,938	91.5%
Bishop Intl Arprt Auth	2507	7,362,372	923,451	3,564,516	22,130	11,872,469	9,354,841	78.8%
Blackman Chtr Twp	3806	7,512,446	255,158	5,852,314	2,919	13,622,837	8,361,075	61.4%
Blissfield Vlg of	4606	1,842,495	290,613	2,255,730	0	4,388,838	3,968,448	90.4%
Bloomfield Hills City of	6302	9,490,371	587,187	27,566,674	19,082	37,663,314	30,927,217	82.1%
Blue Water Area Trans Comm	7709	7,905,415	234,837	3,029,913	0	11,170,165	8,867,593	79.4%
Boyne City City of	1506	2,578,878	343,986	5,876,571	9,700	8,809,135	7,266,186	82.5%
Boyne City HC	1508	252,833	150,262	804,771	1,531	1,209,397	751,880	62.2%



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Results by Municipality

Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Branch Co	1205	20,236,907	18,720,806	24,697,454	699,684	64,354,851	64,729,627	100.6%
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	4,930,969	1,520,438	8,778,930	44,111	15,274,448	13,101,014	85.8%
Brandon Chtr Twp of	6333	3,552,158	237,334	3,672,166	915	7,462,573	5,805,539	77.8%
BreckenridgeVlg of	2906	459,776	125,111	1,919,324	15,185	2,519,396	951,462	37.8%
Bridgeport Chtr Twp	7307	3,161,797	1,497,164	4,599,499	14,919	9,273,379	6,422,461	69.3%
Bridgman City of	1110	821,586	346,827	1,018,006	1,942	2,188,361	1,541,403	70.4%
Brighton Area Fire Auth	4715	256,725	0	224,941	0	481,666	490,360	101.8%
Brighton Chtr Twp of	4711	884,147	375,892	960,551	6,430	2,227,020	2,093,719	94.0%
Brighton City of	4704	10,347,968	302,184	14,277,455	18,589	24,946,196	15,417,825	61.8%
Britton Vlg of	4604	301,309	16,668	0	1,786	319,763	538,110	168.3%
Bronson City of	1204	1,151,734	476,222	819,330	74,297	2,521,583	1,809,973	71.8%
Brooklyn Vlg of	3801	329,757	10,027	861,213	33,707	1,234,704	823,595	66.7%
Brownstown Chtr Twp of	8247	21,765,172	440,736	10,299,739	74,012	32,579,659	24,143,901	74.1%
Buchanan City of	1101	3,291,579	442,267	4,149,890	35,527	7,919,263	8,283,894	104.6%
Buchanan Dist Lib	1108	241,838	67,631	32,353	0	341,822	396,586	116.0%
Buena Vista Chtr Twp	7312	3,585,063	770,607	8,510,713	45,699	12,912,082	8,572,778	66.4%
Burton City of	2508	8,739,022	1,242,562	43,024,512	80,200	53,086,296	25,755,834	48.5%
Butman Twp CLD	2604	0	0	79,047	0	79,047	95,777	121.2%
Cadillac City of	8301	5,789,165	934,749	9,273,455	0	15,997,369	12,403,252	77.5%
Cadillac/Wexford Trans Auth	8305	910,969	0	1,716,130	0	2,627,099	1,851,597	70.5%
Calhoun Co	1311	51,863,419	6,002,468	53,651,345	1,014,012	112,531,244	89,021,332	79.1%
Calhoun Co Conso Dispatch Auth	1316	3,197,907	254,925	3,343,154	24,565	6,820,551	6,444,194	94.5%
Canton Chtr Twp of	8233	48,454,541	1,498,942	86,618,617	110,051	136,682,151	87,874,502	64.3%
Canton Pub Lib	8232	1,456,219	70,041	3,293,676	11,403	4,831,339	4,717,750	97.6%
Capac Vlg of	7705	128,807	111,014	2,312,254	11,030	2,563,105	809,883	31.6%
Capital Area Dist Lib	3317	7,591,185	326,874	3,585,222	114,835	11,618,116	9,730,222	83.8%
Capital Region Arprt Auth	3305	4,740,332	1,963,443	10,931,220	5,688	17,640,683	14,070,186	79.8%
Carleton Vlg of	5805	763,204	18,901	651,887	0	1,433,992	1,051,529	73.3%
Carrollton Twp	7320	2,735,236	242,724	1,637,457	0	4,615,417	3,449,758	74.7%
Cascade Chtr Twp	4110	4,701,941	379,252	5,698,437	3,299	10,782,929	8,608,657	79.8%
Caseville City of	3207	1,293,359	0	1,942,560	897	3,236,816	2,346,685	72.5%
Caspian City of	3608	238,990	60,581	935,744	0	1,235,315	651,710	52.8%
Cass Co	1402	16,579,881	788,973	16,898,882	153,842	34,421,578	25,007,383	72.7%
Cass Co MCF	1403	2,775,489	377,885	3,447,559	192,068	6,793,001	6,106,539	89.9%
Cass Dist Lib	1404	719,238	101,905	288,694	6,452	1,116,289	1,014,833	90.9%
Cedar Springs City of	4105	412,456	446,073	2,469,170	15,275	3,342,974	2,752,088	82.3%
Center Line City of	5001	1,314,615	244,740	6,751,548	56,784	8,367,687	4,017,226	48.0%
Central Lake Vlg of	0504	288,744	4,473	0	0	293,217	260,991	89.0%
Central Mich Dist Hlth Dept	3705	6,154,406	1,958,227	14,325,805	61,928	22,500,366	15,427,783	68.6%
Charlevoix City of	1505	3,749,023	435,820	9,748,491	4,902	13,938,236	9,092,844	65.2%
Charlevoix Co	1503	26,548,013	4,167,692	28,334,597	31,731	59,082,033	43,962,389	74.4%
Charlevoix CRC	1501	3,501,962	317,802	4,753,820	0	8,573,584	6,741,258	78.6%
Charlotte City of	2301	5,314,563	1,072,017	16,591,211	28,531	23,006,322	12,974,707	56.4%
Charlotte Dist Lib	2309	374,155	5,162	497,066	0	876,383	467,988	53.4%
Cheboygan City of	1602	3,789,721	81,443	7,494,638	7,630	11,373,432	6,936,506	61.0%
Cheboygan Co	1603	14,083,316	979,209	16,171,635	76,020	31,310,180	22,423,120	71.6%
Cheboygan CRC	1601	5,958,030	777,083	14,972,537	3,856	21,711,506	10,112,529	46.6%
Chelsea Area Fire Auth	8118	754,786	55,710	227,401	0	1,037,897	991,813	95.6%
Chelsea City of	8103	1,222,155	433,000	11,404,288	0	13,059,443	10,334,801	79.1%
Chesaning Vlg of	7313	662,783	136,428	2,716,617	0	3,515,828	850,240	24.2%
Chesterfield Twp	5009	20,403,466	1,151,693	21,788,252	59,466	43,402,877	32,197,559	74.2%
Chesterfield Twp Lib	5010	395,087	276,412	745,317	7,423	1,424,239	1,617,684	113.6%
Chikaming Twp	1112	1,002,804	0	1,483,582	14,894	2,501,280	1,756,373	70.2%
Chippewa Co	1703	18,451,703	1,186,112	27,709,497	118,995	47,466,307	32,186,798	67.8%
Chippewa Co - Emplmt & Trng CLD	1710	0	177,060	1,452,046	5,345	1,634,451	1,888,544	115.5%
Chippewa CRC	1704	6,171,452	130,530	14,532,104	0	20,834,086	10,299,788	49.4%
Chippewa River Dist Lib	3707	1,509,513	438,336	1,552,325	19,806	3,519,980	2,849,241	80.9%
Chocolay Chtr Twp of	5218	565,698	131,941	1,142,500	24,626	1,864,765	1,871,360	100.4%
Clare City of	1804	3,291,053	551,874	5,371,424	10,560	9,224,911	5,651,438	61.3%
Clare Co	1802	11,304,185	1,895,426	11,809,780	118,408	25,127,799	17,847,668	71.0%
Clare Co Trans Auth	1806	228,020	11,675	85,475	0	325,170	230,059	70.8%
Clare CRC	1801	3,971,616	70,964	8,700,511	15,505	12,758,596	8,987,326	70.4%
Clawson City of	6305	4,443,251	275,123	20,106,959	7,320	24,832,653	25,162,681	101.3%
Clay Twp	7706	4,683,616	443,976	5,530,310	51,909	10,709,811	6,799,595	63.5%
Clearwater Twp	4005	41,021	0	104,983	0	146,004	100,564	68.9%
Clinton Co	1903	24,487,045	3,495,970	31,908,963	39,752	59,931,730	60,922,447	101.7%
Clinton CRC	1901	7,785,045	665,692	14,783,209	22,795	23,256,741	15,442,161	66.4%
Clinton Twp	5002	25,032,357	1,455,660	51,337,487	197,320	78,022,824	47,952,629	61.5%
Clinton Vlg of	4602	2,756,308	133,404	3,179,538	0	6,069,250	5,910,384	97.4%
Clinton-Eaton-Ingham CMH	3308	82,110,895	8,980,843	103,115,693	1,149,397	195,356,828	142,244,584	72.8%
Clio City of	2523	853,366	59,232	1,053,034	8,182	1,973,814	1,503,265	76.2%
CMH for Central Mich	3708	35,408,457	5,354,602	41,934,609	25,694	82,723,362	69,315,066	83.8%
Coldwater Brd of Pub Util	1203	3,788,872	307,237	8,900,367	0	12,996,476	7,743,925	59.6%
Coldwater City of	1201	4,313,784	331,305	12,056,398	37	16,701,524	12,414,260	74.3%
Coleman City of	5603	1,204,816	0	1,721,307	5,494	2,931,617	1,951,222	66.6%
Coloma Chtr Twp	1107	1,067,796	313,291	1,205,281	16,816	2,603,184	1,813,122	69.7%
Coloma City of	1118	913,261	0	182,874	0	1,096,135	986,577	90.0%
Columbiaville Vlg of	4406	356,101	0	270,117	0	626,218	445,170	71.1%



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Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Constantine Vlg of	7806	25,163	36,143	0	12,055	73,361	131,880	179.8%
Coopersville Area Dist Lib	7011	177,035	7,578	324,925	0	509,538	322,163	63.2%
Coopersville City of	7005	701,411	220,001	2,260,841	270	3,182,523	2,407,183	75.6%
Corunna City of	7604	1,751,253	111,457	4,028,972	606	5,892,288	4,358,432	74.0%
Corwith Twp	6904	129,987	32,097	0	0	162,084	156,815	96.7%
Covert Twp	8010	1,170,483	210,144	718,591	11,725	2,110,943	1,499,307	71.0%
Crawford Co	2001	7,842,247	911,346	12,874,556	2,950	21,631,099	22,002,667	101.7%
Crawford Co Trans Auth	2004	2,244,566	205,856	3,861,367	3,734	6,315,523	4,762,382	75.4%
Crawford CRC	2002	4,080,533	0	6,004,166	0	10,084,699	4,256,646	42.2%
Croswell City of	7401	4,367,977	407,335	6,179,814	5,228	10,960,354	6,287,971	57.4%
Crystal Falls City of	3603	2,685,671	579,395	6,234,951	0	9,500,017	5,710,104	60.1%
Crystal Falls Cmnty Hosp CLD	3618	0	450,478	3,025,586	0	3,476,064	3,599,045	103.5%
Ctrl Dispatch of Muskegon Co	6109	2,706,669	319,612	3,983,561	79,838	7,089,680	5,793,810	81.7%
Ctrl Wayne Co Sanitation Auth	8214	0	136,813	1,929,633	0	2,066,446	1,758,244	85.1%
Davison Richfield Sr CCA	2525	77,195	0	230,806	0	308,001	171,823	55.8%
Davison Twp	2519	8,448,396	259,020	7,538,684	12,961	16,259,061	12,327,995	75.8%
DavisonCity of	2516	3,603,506	177,685	10,010,895	20,133	13,812,219	6,810,308	49.3%
Dearborn City of	8251	18,756,521	3,804	0	67,174	18,827,499	18,040,146	95.8%
Deerfield Vlg of	4603	227,765	49,877	1,300,274	0	1,577,916	1,084,987	68.8%
Delta Area Transit Auth	2107	83,223	0	0	0	83,223	66,728	80.2%
Delta Chtr Twp	2306	5,681,691	927,704	9,707,044	58,636	16,375,075	12,659,610	77.3%
Delta Co	2102	10,242,785	2,219,483	27,682,826	2,455	40,147,549	28,755,356	71.6%
Delta CRC	2105	3,186,095	449,921	9,370,596	0	13,006,612	7,499,301	57.7%
Delta-Menominee Dist Hlth Dept	2103	4,119,158	1,513,276	5,926,950	18,215	11,577,599	10,241,237	88.5%
Detour Vlg of	1706	248,037	70,563	241,030	0	559,630	229,340	41.0%
Detroit HC	8241	10,670,080	2,966,794	6,308,655	115,115	20,060,644	19,355,672	96.5%
DeWitt Chtr Twp	1910	2,573,130	188,639	3,982,555	13,015	6,757,339	4,697,972	69.5%
DeWitt City of	1908	2,000,230	456,335	3,244,240	1,379	5,702,184	3,166,080	55.5%
Dexter Area Fire Dept	8219	1,304,498	0	459,835	0	1,764,333	1,234,479	70.0%
Dexter City of	8217	2,128,317	60,099	2,086,193	0	4,274,609	3,738,116	87.4%
Dexter Twp	8111	467,589	4,020	466,924	57,810	996,343	794,091	79.7%
Dickinson Co	2206	11,809,946	1,975,627	23,212,489	148,079	37,146,141	22,069,536	59.4%
Dickinson CRC	2203	2,726,405	379,644	7,738,563	0	10,844,612	5,200,937	48.0%
Dickinson-Iron Dist Hlth Dept	3605	2,867,832	728,695	6,477,891	9,692	10,084,110	6,600,172	65.5%
DimondaleVlg of	2304	271,820	38,496	714,185	0	1,024,501	770,077	75.2%
Dist Hlth Dept # 2	6501	1,295,015	969,216	5,547,351	13,460	7,825,042	6,210,038	79.4%
Dist Hlth Dept # 4	7103	4,006,402	595,498	16,712,380	2,943	21,317,223	12,644,342	59.3%
Dist Hlth Dept #10	5104	4,578,870	744,233	24,465,409	3,317	29,791,829	18,379,562	61.7%
Douglas City of Vlg of	0303	1,678,731	562,938	1,491,383	2,309	3,735,361	3,671,580	98.3%
Dowagiac City of	1401	5,525,127	1,840,697	14,493,962	38,483	21,898,269	11,233,764	51.3%
Dowagiac Dist Lib	1406	39,978	0	96,163	1,841	137,982	128,361	93.0%
Dowagiac HC	1405	82,708	25,870	165,563	0	274,141	276,564	100.9%
Drummond Island Twp	1708	208,542	0	27,313	0	235,855	214,715	91.0%
Dryden Vlg of	4405	48,190	125,474	269,058	0	442,722	268,458	60.6%
Dundee Vlg of	5803	733,056	448,549	2,996,659	30,548	4,208,812	2,453,152	58.3%
Durand City of	7603	1,809,270	575,215	4,179,487	0	6,563,972	4,295,841	65.4%
E UP Reg Planning & Dev Comm	1709	297,839	0	0	0	297,839	430,102	144.4%
E UP Trans Auth	1705	2,876,247	152,298	9,348,563	0	12,377,108	5,443,229	44.0%
East China Chtr Twp	7701	898,981	546,007	7,431,495	10,801	8,887,284	5,434,627	61.2%
East Grand RapidsCity of	4101	2,331,656	343,432	16,141,254	3,086	18,819,428	9,347,147	49.7%
East Jordan City of	1504	1,852,150	149,871	3,302,352	12,045	5,316,418	3,502,253	65.9%
East Lansing City of	3301	46,935,798	4,857,149	142,100,567	37,389	193,930,903	103,249,039	53.2%
Eastpointe City of	5019	21,647,136	1,067,915	65,607,876	0	88,322,927	45,994,270	52.1%
Eastpointe HC	5011	1,129,310	0	181,940	5,432	1,316,682	1,069,784	81.2%
Eaton Co	2302	47,046,276	8,740,306	106,525,427	524,099	162,836,108	98,368,652	60.4%
Eaton Co Hlth & Rehab Svcs	2305	7,323,119	755,749	4,132,056	608,308	12,819,232	11,814,805	92.2%
Eaton Rapids City of	2307	4,056,876	481,234	10,877,971	11,993	15,428,074	9,222,121	59.8%
Eau Claire Vlg of	1104	136,152	0	364,050	1,947	502,149	190,456	37.9%
Ecorse City of	8206	5,896,047	513,738	35,403,487	158	41,813,430	17,532,858	41.9%
Elk Rapids Vlg of	0506	1,195,780	7,209	1,718,067	41,710	2,962,766	2,177,689	73.5%
Elkton Vlg of	3206	156,672	52,648	432,221	0	641,541	646,113	100.7%
Elsie Vlg of CLD	1906	0	0	128,571	1,245	129,816	186,708	143.8%
Emmet CRC	2401	3,517,160	8,367	11,475,293	0	15,000,820	10,222,705	68.1%
Emmett Chtr Twp	1310	3,159,673	518,757	2,310,661	3,783	5,992,874	4,594,391	76.7%
Erie Twp of	5812	116,726	0	0	19,813	136,539	153,886	112.7%
Esanaba City of	2101	8,950,682	649,055	27,590,712	0	37,190,449	23,841,683	64.1%
Essexville City of	0903	1,081,984	668,669	5,238,187	36,423	7,025,263	4,812,734	68.5%
Ewart City of	6705	611,106	366,274	1,407,294	2,027	2,386,701	1,739,467	72.9%
Ewart Local Dev Finance Auth	6706	94,603	0	443,005	0	537,608	252,836	47.0%
Farmington City of	6343	8,401,769	385,776	17,865,942	5,425	26,658,912	20,715,689	77.7%
Farmington Cmnty Lib	6319	2,512,040	105,443	6,684,713	1,577	9,303,773	8,623,518	92.7%
Farwell Vlg of	1805	36,741	127,729	376,184	11,296	551,950	380,994	69.0%
Fenton City of	2505	6,205,453	467,609	11,614,516	12,773	18,300,351	12,004,665	65.6%
Ferndale HC	6345	516,026	422,177	161,035	9,105	1,108,343	705,588	63.7%
Ferrysburg City of	7106	1,227,514	34,697	1,171,263	0	2,433,474	1,717,590	70.6%
Flat Rock City of	8212	7,168,595	1,515,759	18,727,518	114,906	27,526,778	12,956,682	47.1%
Flint Chtr Twp of	2512	8,804,789	383,746	25,830,790	58,240	35,077,565	21,637,866	61.7%
Flint City of	2530	55,417,843	13,597,588	478,973,186	331,281	548,319,898	179,957,297	32.8%



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Flint Pub Lib	2518	1,311,956	208,258	247,916	0	1,768,130	1,987,648	112.4%
Flushing Chtr Twp of	2515	2,363,558	88,540	3,673,718	0	6,125,816	3,938,893	64.3%
Flushing City of	2502	5,276,712	696,654	15,391,989	18,490	21,383,845	10,849,898	50.7%
Forsyth Twp	5212	1,754,296	454,985	5,458,725	0	7,668,006	4,252,671	55.5%
Fowler Vlg of	1904	338,048	34,901	103,940	0	476,889	361,989	75.9%
Fowlerville Dist Lib	4710	130,729	0	568,672	1,212	700,613	543,948	77.6%
Fowlerville Vlg of	4705	775,465	141,489	2,644,978	7,417	3,569,349	3,223,757	90.3%
Frankenmuth City of	7306	5,537,169	264,794	10,277,640	1,221	16,080,824	11,017,338	68.5%
Frankenmuth Wickson Dist Lib	7323	0	0	270,175	0	270,175	212,715	78.7%
Frankfort City of	1002	1,518,396	116,904	2,142,462	4,912	3,782,674	1,988,342	52.6%
Franklin Vlg of	6323	1,382,080	6,181	6,602,909	27,525	8,018,695	4,379,020	54.6%
Fraser City of	5003	17,247,602	2,817,626	41,707,618	115,080	61,887,926	32,045,447	51.8%
Fremont Area Dist Lib	6209	595,036	158,435	565,275	0	1,318,746	925,897	70.2%
Fremont City of	6203	5,019,426	791,233	8,167,004	0	13,977,663	8,048,939	57.6%
Gaastra City of	3617	235,050	0	147,456	0	382,506	210,522	55.0%
Garden City City of	8255	23,746,657	241,403	71,326,138	113,793	95,427,991	58,823,439	61.6%
Gaylord City of	6903	4,818,964	84,364	10,231,781	2,211	15,137,320	9,074,731	59.9%
Genesee Chtr Twp	2510	4,901,406	1,071,002	13,415,130	8,989	19,396,527	9,596,153	49.5%
Genoa Twp	4713	474,943	0	0	0	474,943	402,572	84.8%
Gerald R Ford Intl Arprt Auth	4116	13,633,650	735,515	3,742,130	13,805	18,125,100	25,751,899	142.1%
Gladstone City of	2106	2,830,309	110,783	10,558,131	0	13,499,223	6,924,254	51.3%
Gladwin City HC	2608	830,294	227,276	2,952,171	11,210	4,020,951	2,921,361	72.7%
Gladwin City of	2605	1,482,596	0	515,357	7,410	2,005,363	1,716,186	85.6%
Gladwin Co	2602	8,776,871	1,520,443	14,442,742	90,505	24,830,561	16,770,735	67.5%
Gladwin Co Dist Lib	2607	461,017	0	808,842	2,595	1,272,454	964,802	75.8%
Gladwin CRC	2601	4,037,153	856,182	11,153,558	3,645	16,050,538	10,171,255	63.4%
Gogebic-Iron WWTR Auth	2703	1,912,808	0	1,624,001	0	3,536,809	2,409,976	68.1%
Grand Beach Vlg of	1117	345,039	29,875	89,174	0	464,088	463,302	99.8%
Grand Blanc Chtr Twp	2511	12,465,661	140,929	12,160,275	11,323	24,778,188	16,581,286	66.9%
Grand Blanc City of	2513	4,583,281	329,276	10,569,750	11,913	15,494,220	14,758,696	95.3%
Grand Haven City of	7010	38,676,466	4,454,971	69,816,463	288,484	113,236,384	87,684,775	77.4%
Grand Ledge Area Dist. Library	2316	33,141	0	0	0	33,141	31,467	94.9%
Grand Ledge Area ESA	2310	1,366,119	87,886	502,125	11	1,956,141	1,626,729	83.2%
Grand Ledge City of	2312	877,086	113,621	2,346,063	0	3,336,770	2,238,965	67.1%
Grand Rapids HC	4108	793,866	0	1,555,023	0	2,348,889	1,737,350	74.0%
Grand Traverse Co	2803	14,701,338	3,952,887	78,147,188	1,603	96,803,016	50,840,094	52.5%
Grand Traverse CRC	2802	483,775	102,882	8,420,531	0	9,007,188	8,726,459	96.9%
Grand Traverse Pavilions	2809	21,715,154	3,691,399	16,247,823	377,923	42,032,299	33,071,529	78.7%
Grandville City of	4102	4,152,766	491,728	15,203,223	0	19,847,717	11,574,412	58.3%
Gratiot Co	2905	10,364,363	1,405,080	19,756,958	0	31,526,401	31,398,884	99.6%
Gratiot CRC	2903	5,570,152	34,939	13,695,181	0	19,300,272	12,008,134	62.2%
Grayling City of	2003	507,230	406,130	3,162,994	0	4,076,354	2,558,533	62.8%
Green Oak Chtr Twp	4708	5,662,063	184,775	3,557,592	25,849	9,430,279	6,188,835	65.6%
Greenville City of	5906	2,878,088	275,256	3,796,775	35,147	6,985,266	4,966,964	71.1%
Grosse Ile Twp	8207	13,958,826	631,609	21,124,818	673	35,715,926	21,814,421	61.1%
Grosse Pointe Park City of	8201	17,125,050	901,254	29,926,009	36,030	47,988,343	26,633,481	55.5%
Grosse Pointe-Clinton Ref CLD	5004	0	0	1,998,963	42,658	2,041,621	2,406,022	117.8%
Groveland Twp	6335	650,631	167,068	1,258,494	0	2,076,193	2,665,763	128.4%
Hackley Pub Lib	6114	262,919	66,474	0	0	329,393	323,680	98.3%
Hamburg Twp	4709	2,843,960	396,823	2,860,305	9,210	6,110,298	4,068,533	66.6%
Hamtramck City of	8205	10,503,859	2,127,079	86,446,034	479,263	99,556,235	42,940,388	43.1%
Hamtramck HC	8250	2,331,539	358,302	555,588	3,588	3,249,017	2,538,223	78.1%
Hancock City of	3107	1,233,607	270,997	3,112,459	0	4,617,063	2,803,603	60.7%
Harbor Beach City of	3201	3,662,569	94,939	4,995,779	8,397	8,761,684	6,265,693	71.5%
Harbor Springs Area Swg Auth	2406	669,228	0	538,046	0	1,207,274	1,030,919	85.4%
Harbor Springs City of	2405	3,381,053	0	3,374,344	23,406	6,778,803	4,330,057	63.9%
Harper Woods City of	8260	9,034,001	1,406,848	42,168,368	23,397	52,632,614	22,750,833	43.2%
Harrison City of	1803	877,685	116,120	2,439,113	312	3,433,230	2,467,188	71.9%
Harrison Dist Lib	1807	0	0	250,466	0	250,466	166,581	66.5%
Hartland Deerfield Fire Auth	4716	715,546	72,990	0	0	788,536	841,942	106.8%
Hastings City of	0801	4,409,569	1,034,764	10,990,051	5,156	16,439,540	8,236,452	50.1%
Hazel Park City of	6336	17,058,766	968,982	53,532,924	138,002	71,698,674	32,980,506	46.0%
Helen Newberry Joy Hosp	4805	4,215,115	690,997	12,586,587	43,944	17,536,643	12,370,045	70.5%
Henika Dist Lib	0310	0	0	495,231	0	495,231	462,651	93.4%
Herrick Dist Lib	7012	3,201,235	202,831	5,253,132	272	8,657,470	6,797,928	78.5%
Hesperia Vlg of	6214	0	39,513	0	1,680	41,193	75,462	183.2%
Hiawatha Bhvrl Hlth	1707	3,241,292	2,237,946	14,190,554	38,672	19,708,464	15,172,460	77.0%
Hillsdale City of	3001	8,032,930	1,552,584	15,066,007	132,505	24,784,026	19,805,129	79.9%
Hillsdale Co	3005	3,755,380	256,626	4,783,131	288	8,795,425	5,441,122	61.9%
Hillsdale CRC	3004	4,598,604	163,391	7,085,948	901	11,848,844	8,096,785	68.3%
Hillsdale HC	3007	25,752	0	199,535	0	225,287	224,934	99.8%
Hlth Source of Saginaw	7311	15,025,390	4,017,425	27,129,721	10,858	46,183,394	39,094,419	84.7%
Holland Area Cmnty Pool Auth	7014	762,053	107,189	452,691	38,737	1,360,670	1,224,004	90.0%
Holland City of	7001	48,765,341	5,124,057	85,619,383	11,615	139,520,396	130,905,006	93.8%
Holland Cmnty Hosp CLD	7006	0	23,661	1,285,685	0	1,309,346	1,563,196	119.4%
Holly Vlg of	6317	3,850,103	306,441	10,918,495	3,577	15,078,616	7,306,322	48.5%
Homer Vlg of	1304	401,196	221,276	1,050,092	0	1,672,564	1,452,021	86.8%
Houghton City of	3109	3,595,838	221,263	1,493,569	0	5,310,670	4,478,370	84.3%



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Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Houghton Co	3102	9,801,250	1,391,842	19,093,595	52,055	30,338,742	20,850,404	68.7%
Houghton CRC	3103	1,362,166	466,558	3,086,517	0	4,915,241	3,243,418	66.0%
Houghton Lake Pub Lib	7203	344,891	2,923	558,483	0	906,297	821,656	90.7%
Howard City Vlg of	5902	99,606	161,799	635,359	0	896,764	692,889	77.3%
Howard Twp	1106	121,405	14,852	46,439	0	182,696	136,463	74.7%
Howell Area Fire Auth	4714	797,642	0	780,165	0	1,577,807	1,446,415	91.7%
Howell City of	4702	8,021,014	1,729,160	16,895,609	66,149	26,711,932	16,113,409	60.3%
Howell-Carnegie Dist Lib	4707	1,190,357	12,033	723,001	0	1,925,391	1,636,895	85.0%
Hudsonville City of	7004	0	630,011	1,793,039	1,590	2,424,640	1,755,334	72.4%
Huntington Woods City of	6303	7,940,255	103,409	17,454,425	19,930	25,518,019	15,644,871	61.3%
Hurley Med Ctr	2521	175,005,727	33,528,277	399,836,484	2,815,871	611,186,359	440,367,763	72.1%
Huron Behavioral Health	3215	8,501,862	2,811,744	8,508,982	255,076	20,077,664	17,999,632	89.7%
Huron Chtr Twp	8224	10,010,775	1,193,550	14,162,226	25,689	25,392,240	16,869,598	66.4%
Huron Co	3204	33,436,629	2,543,178	56,149,643	497,624	92,627,074	64,678,679	69.8%
Huron CRC	3202	13,009,444	655,690	14,939,259	10,175	28,614,568	21,610,152	75.5%
Imlay City City of	4404	2,723,213	150,844	5,679,022	2,043	8,555,122	5,629,950	65.8%
Independence Twp	6328	7,059,939	168,470	6,844,828	10,720	14,083,957	9,774,304	69.4%
Indianfields Twp CLD	7905	0	50,699	180,055	0	230,754	301,051	130.5%
Ingham Co	3303	163,560,730	19,136,167	301,088,374	1,565,504	485,350,775	309,926,208	63.9%
Interurban Trans Auth	0308	434,966	0	1,068,785	0	1,503,751	1,184,705	78.8%
Ionia City of	3403	10,071,293	452,165	13,120,841	8,387	23,652,686	11,849,200	50.1%
Ionia Cmnty Lib	3412	126,643	71,074	506,255	0	703,972	460,059	65.4%
Ionia Co	3408	5,707,684	764,222	5,001,046	78,201	11,551,153	9,443,859	81.8%
Ionia CRC	3404	4,809,951	323,019	13,576,084	0	18,709,054	7,614,662	40.7%
Ionia HC	3406	491,198	0	851,001	0	1,342,199	1,003,151	74.7%
Iosco Co	3501	12,084,337	1,488,075	15,954,273	34,105	29,560,790	21,938,985	74.2%
Iosco CRC	3502	3,309,268	184,503	8,418,799	0	11,912,570	8,869,513	74.5%
Iron Co	3606	20,497,701	2,486,868	21,024,342	353,418	44,362,329	40,660,225	91.7%
Iron Co HC	3611	996,078	30,776	64,126	0	1,090,980	781,258	71.6%
Iron CRC	3602	3,380,511	128,963	9,691,939	0	13,201,413	5,806,371	44.0%
Iron Mountain City of	2201	2,480,371	33,510	10,544,483	10,479	13,068,843	4,647,550	35.6%
Iron Mountain-Kingsford Swg	2205	1,159,421	37,779	326,876	497	1,524,573	1,047,734	68.7%
Iron River City of	3601	965,287	574,001	8,499,360	0	10,038,648	5,718,954	57.0%
Ironwood City of	2706	6,236,955	414,144	13,482,971	22,172	20,156,242	10,505,236	52.1%
Isabella Co	3703	22,167,842	4,303,479	36,753,234	51,120	63,275,675	50,300,503	79.5%
Isabella Co Trans Comm	3709	1,362,581	0	1,479,443	2,973	2,844,997	2,423,528	85.2%
Isabella CRC	3702	5,945,617	803,978	7,726,400	17,523	14,493,518	10,786,437	74.4%
Ishpeming Area Joint Wwtr Trtm	5207	923,296	0	1,048,482	1,720	1,973,498	2,044,101	103.6%
Ishpeming City of	5204	3,423,039	375,526	13,581,348	81,836	17,461,749	8,400,613	48.1%
Ishpeming Twp	5216	655,124	24,078	1,162,694	1,980	1,843,876	1,648,106	89.4%
Ithaca City of	2904	549,869	155,556	3,933,488	0	4,638,913	2,778,008	59.9%
Jackson Dist Lib	3802	3,560,927	651,799	4,289,213	25,603	8,527,542	8,054,630	94.5%
Jackson Trans Auth	3805	4,561,982	686,132	3,885,367	6,778	9,140,259	7,016,177	76.8%
Jordan Valley Dist Lib	1507	247,094	0	72,754	0	319,848	303,252	94.8%
Jordan Valley EMS Auth	1509	333,503	20,189	85,773	8,477	447,942	327,851	73.2%
Kalamazoo Chtr Twp of	3907	6,410,818	247,195	8,242,173	5,816	14,906,002	11,563,686	77.6%
Kalamazoo Lake Swr & Wtr Auth	0306	163,596	192,282	956,634	0	1,312,512	1,017,172	77.5%
Kalamazoo Pub Lib	3903	5,553,094	646,522	2,871,662	0	9,071,278	8,118,365	89.5%
Kalkaska Co	4003	5,536,194	1,336,499	15,379,175	45,848	22,297,716	15,762,780	70.7%
Kalkaska CRC	4002	1,064,870	2,072,458	7,069,486	2,844	10,209,658	3,657,593	35.8%
Kalkaska Pub Trans Auth	4004	827,327	42,296	1,468,797	10,366	2,348,786	2,022,913	86.1%
Kalkaska Vlg of	4001	336,079	155,262	5,409,495	4,320	5,905,156	2,728,666	46.2%
Keego Harbor City of	6322	910,094	254,186	3,601,201	7,265	4,772,746	2,263,141	47.4%
Kent CRC	4111	0	0	105,128	0	105,128	179,219	170.5%
Keweenaw Co	4202	1,646,704	197,420	1,804,541	2,413	3,651,078	2,876,023	78.8%
Keweenaw CRC	4201	1,905,669	26,499	4,774,768	0	6,706,936	3,357,935	50.1%
Kinde Vlg of	3209	74,849	0	182,585	0	257,434	278,346	108.1%
Kingsford City of	2202	2,928,752	5,147	6,158,042	27,785	9,119,726	5,784,015	63.4%
L.M.A.S. Dist Hlth Dept	4803	1,699,133	2,427,485	6,158,526	741	10,285,885	7,763,679	75.5%
Lac Vieux Desert Band	8402	359,912	86,842	219,796	1,698	668,248	622,732	93.2%
Laingsburg City of	7608	395,857	21,701	243,890	6,283	667,731	567,078	84.9%
Lake Co	4301	8,754,632	983,482	10,904,499	18,511	20,661,124	15,309,011	74.1%
Lake CRC	4302	2,747,054	206,880	8,126,937	0	11,080,871	5,559,867	50.2%
Lake Linden Vlg of	3105	233,075	87,633	1,053,806	0	1,374,514	673,287	49.0%
Lake Odessa Vlg of	3402	53,512	0	430,401	0	483,913	422,504	87.3%
Lake Orion Vlg of	6318	1,160,152	157,133	2,676,807	27,245	4,021,337	2,863,142	71.2%
Lakeland Lib Coop	4106	826,190	28,302	470,655	6,412	1,331,559	1,276,159	95.8%
Lakeshore Coordinating Council CLD	7007	0	134,650	772,949	0	907,599	1,015,878	111.9%
Lakeview Cemetery	2407	135,986	0	0	0	135,986	130,101	95.7%
L'Anse Vlg of	0705	2,384,172	6,253	4,714,614	0	7,105,039	3,380,015	47.6%
Lansing Chtr Twp	3320	5,185,422	219,263	4,563,106	19,443	9,987,234	8,598,477	86.1%
Lansing HC	3311	1,010,656	875,113	7,497,878	45,523	9,429,170	8,518,853	90.3%
Lapeer City of	4401	14,340,573	833,894	14,801,331	0	29,975,798	21,614,327	72.1%
Lapeer Co	4403	61,311,804	7,566,225	57,845,653	254,617	126,978,299	107,283,161	84.5%
Lapeer CRC	4402	6,788,491	227,418	11,968,636	46,630	19,031,175	12,475,889	65.6%
Lapeer Dist Lib	4410	1,322,207	201,718	3,413,090	36,365	4,973,380	3,241,918	65.2%
Lathrup Vlg City of	6311	1,913,753	115,574	6,148,510	74,727	8,252,564	6,465,340	78.3%
Laurium Vlg of	3104	1,365,135	68,076	1,348,607	0	2,781,818	1,675,326	60.2%



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Results by Municipality

Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Lawrence Vlg of	8004	0	8,455	105,098	0	113,553	109,454	96.4%
Leelanau Co	4501	13,330,484	1,304,785	15,085,217	29,927	29,750,413	25,893,920	87.0%
Leelanau CRC	4503	2,491,472	616,004	4,663,817	15,589	7,786,882	6,786,850	87.2%
Leoni Twp	3804	404,558	1,826,097	3,890,823	68,137	6,189,615	4,478,781	72.4%
Leslie City of	3313	741,853	168,072	1,233,598	913	2,144,436	1,441,657	67.2%
Leslie Twp	3319	466,933	0	62,561	0	529,494	451,428	85.3%
Lexington Vlg of	7708	866,701	311,934	1,764,564	12,607	2,955,806	1,762,746	59.6%
Lima Twp	8112	255,174	0	198,672	0	453,846	487,379	107.4%
Lincoln Park City of	8244	3,656,708	1,596,747	34,890,812	0	40,144,267	9,433,134	23.5%
Litchfield City of	3006	812,122	56,583	1,214,035	7,379	2,090,119	1,388,477	66.4%
Livingston Co	4703	66,654,354	8,919,726	79,944,348	59,077	155,577,505	120,757,338	77.6%
Livingston Co CMH Auth	4712	10,159,244	2,922,165	10,858,482	0	23,939,891	20,677,792	86.4%
Livingston CRC	4701	10,893,652	521,692	13,483,514	0	24,898,858	19,367,410	77.8%
Looking Glass Rgnl Fire CLD	2311	0	64,319	80,389	0	144,708	172,848	119.4%
Loutit Dist Lib	7013	1,696,089	100,956	1,008,562	21,188	2,826,795	2,338,220	82.7%
Lowell City of	4104	5,836,516	1,007,583	8,739,474	64,910	15,648,483	9,800,934	62.6%
Luce Co	4804	2,872,321	507,278	5,321,776	4,909	8,706,284	4,966,822	57.0%
Luce Co Amb Svcs	4806	473,075	55,546	0	0	528,621	478,408	90.5%
Luce CRC	4801	1,285,076	559,933	9,283,712	0	11,128,721	4,358,254	39.2%
Ludington City of	5302	5,680,246	336,733	14,610,614	0	20,627,593	13,570,614	65.8%
Luna Pier City of	5802	174,613	129,492	4,743,040	26,419	5,073,564	2,267,059	44.7%
Lyons Vlg of	3411	0	0	189,431	0	189,431	176,877	93.4%
Mackinac Co	4901	5,400,911	704,192	12,589,292	0	18,694,395	13,463,974	72.0%
Mackinac Co HC	4905	9,863	0	438,873	0	448,736	369,089	82.3%
Mackinac CRC	4903	2,159,430	0	7,218,640	0	9,378,070	5,096,903	54.3%
Mackinac Straits Hlth Sys	4902	13,501,697	2,331,194	17,485,496	245,874	33,564,261	25,923,610	77.2%
Mackinaw City Vlg of	1606	1,054,887	42,432	328,647	1,078	1,427,044	1,160,692	81.3%
Madison Chtr Twp of	4605	924,634	88,803	884,373	19,877	1,917,687	1,384,906	72.2%
Madison Heights City of	6308	9,705,875	1,615,273	30,111,366	23,969	41,456,483	41,651,694	100.5%
Manistee City of	5105	7,851,462	901,352	11,746,002	31,516	20,530,332	16,355,320	79.7%
Manistee Co	5101	20,606,059	3,528,077	31,346,821	151,689	55,632,646	40,319,436	72.5%
Manistee CRC	5103	3,892,595	610,717	8,652,947	0	13,156,259	8,564,182	65.1%
Manistee HC	5107	252,514	84,983	271,004	5,814	614,315	578,088	94.1%
Manistique City of	7504	4,260,421	279,632	11,375,643	0	15,915,696	7,290,238	45.8%
Manlius Twp	0311	226,094	0	444,751	1,395	672,240	526,802	78.4%
Manton City of	8304	235,801	102,342	1,577,040	0	1,915,183	682,493	35.6%
Marenisco Twp	2704	288,295	0	246,408	0	534,703	383,899	71.8%
Marine City City of CLD	7704	0	0	12,516	0	12,516	33,319	266.2%
Marion Vlg of	6704	342,981	2,220	333,529	0	678,730	515,564	76.0%
Marlette City of	7405	866,426	59,304	1,302,417	0	2,228,147	1,509,454	67.7%
Marquette Brd of Light & Power	5209	7,493,956	71,640	35,084,270	26,042	42,675,908	31,038,661	72.7%
Marquette Chtr Twp	5215	2,737,044	101,532	694,860	4,393	3,537,829	2,767,742	78.2%
Marquette City of	5201	24,285,705	1,946,432	42,360,952	51,169	68,644,258	42,842,009	62.4%
Marquette Co	5202	23,703,354	3,277,570	83,688,495	270,382	110,939,801	78,548,277	70.8%
Marquette Co Solid Waste Mgmt	5213	1,402,147	668,857	1,086,642	9,055	3,166,701	3,113,540	98.3%
Marquette Co Trans Auth	5206	1,414,457	13,488	2,283,677	23,749	3,735,371	3,306,423	88.5%
Marquette CRC	5211	9,377,635	1,272,639	20,003,311	17,860	30,671,445	14,526,164	47.4%
Marshall Area Firefighters Amb	1313	937,627	104,928	0	35,771	1,078,326	1,180,325	109.5%
Marshall City of	1306	9,578,652	1,630,971	25,102,182	36,483	36,348,288	22,711,158	62.5%
Marshall Dist Lib	1309	0	0	201,450	0	201,450	57,707	28.6%
Mason City of	3304	5,493,413	1,606,398	12,695,086	106,451	19,901,348	13,243,484	66.5%
Mason Co	5301	20,614,895	3,465,499	38,032,002	0	62,112,396	45,251,703	72.9%
Mason Co Dist Lib	5303	939,705	0	1,575,997	0	2,515,702	1,899,033	75.5%
Mason CRC	5305	3,834,730	289,675	4,201,924	4,411	8,330,740	5,651,219	67.8%
Mason-Oceana 911	6403	1,601,240	452,765	937,637	488	2,992,130	2,535,228	84.7%
MBS Intl Arprt	0902	4,276,599	375,519	7,421,517	0	12,073,635	6,996,967	58.0%
Mecoola Central Dispatch	5405	1,963,188	174,573	1,326,171	5,050	3,468,982	2,874,475	82.9%
Mecosta Co	5403	11,546,182	2,609,333	23,631,724	15,309	37,802,548	37,330,679	98.8%
Mecosta Co General Hosp CLD	5404	0	1,658,857	5,336,025	0	6,994,882	8,302,357	118.7%
Mecosta CRC	5401	2,972,626	476,238	7,579,141	28,971	11,056,976	9,377,922	84.8%
Melvindale City of	8215	5,517,764	1,016,217	35,742,108	1,710	42,277,799	16,401,016	38.8%
Melvindale HC	8220	96,220	133,472	1,158,285	15,633	1,403,610	1,048,840	74.7%
Menominee City of	5501	4,859,348	1,372,464	5,409,524	0	11,641,336	8,452,115	72.6%
Menominee Co	5502	12,873,138	1,284,990	14,760,226	5,708	28,924,062	19,645,405	67.9%
Menominee CRC	5503	1,990,382	286,275	3,064,992	0	5,341,649	3,625,535	67.9%
Meridian Chtr Twp	3315	22,993,247	2,151,713	43,277,894	126,812	68,549,666	43,010,072	62.7%
MERS	2308	19,754,004	3,367,800	11,232,158	146,952	34,500,914	37,221,053	107.9%
Metamora Twp	4409	579,105	51,458	631,571	0	1,262,134	1,161,191	92.0%
Metro Police Auth of Genesee Co	2532	4,787,403	235,805	4,010,377	39,402	9,072,987	8,535,269	94.1%
Mich Muni Risk Mgmt Auth	8237	1,375,042	0	0	0	1,375,042	1,493,252	108.6%
Mich S Central Power Agcy	3002	1,116,241	3,837,630	9,341,061	0	14,294,932	14,529,016	101.6%
Middleville Vlg of	0803	421,821	85,309	1,698,998	4,948	2,211,076	1,676,733	75.8%
Midland City of	5601	20,539,139	2,798,702	123,375,952	84,848	146,798,641	84,027,693	57.2%
Midland Co Central Disp Auth	5604	2,763,094	662,399	1,088,347	25,610	4,539,450	3,292,451	72.5%
Midland CRC	5602	5,636,760	0	13,291,095	0	18,927,855	13,946,391	73.7%
Mid-Mich Dist Hlth Dept	5901	5,290,502	1,475,561	5,316,875	75,081	12,158,019	9,667,741	79.5%
Mid-Mich Lib League	8306	32,185	129,777	646,650	0	808,612	703,778	87.0%
Mid-Peninsula Lib Coop CLD	3609	0	0	204,221	2,160	206,381	39,854	19.3%



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Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Milan City of	5801	1,120,324	885,386	11,334,963	0	13,340,673	6,632,870	49.7%
Milan Lib	5806	170,039	0	250,083	0	420,122	260,499	62.0%
Milford Vlg of	6313	5,591,638	654,306	9,357,285	15,586	15,618,815	11,926,665	76.4%
Millington Vlg of	7904	132,120	0	1,342,914	0	1,475,034	1,490,303	101.0%
Missaukee Co	5702	2,792,292	494,740	4,160,633	22,112	7,469,777	5,514,191	73.8%
MOA Solid Waste Mgmt Auth	6002	314,752	121,711	597,378	0	1,033,841	905,132	87.6%
Monroe HC	5808	618,653	180,561	1,886,982	0	2,686,196	1,316,826	49.0%
Montague City of	6112	2,206,970	42,636	4,470,715	0	6,720,321	4,948,198	73.6%
Montcalm Co	5907	14,078,608	1,052,389	16,726,383	62,288	31,919,668	25,619,985	80.3%
Montcalm CRC	5905	5,983,284	402,354	13,029,000	68	19,414,706	10,265,488	52.9%
Montmorency Co	6001	3,472,507	629,086	8,723,096	18,581	12,843,270	6,994,429	54.5%
Montrose City of	2509	164,179	55,750	730,293	0	950,222	611,585	64.4%
Mt. Morris Chtr Twp	2503	11,747,224	376,260	26,900,512	6,427	39,030,423	20,685,569	53.0%
Mt. Pleasant City of	3701	12,748,418	1,652,532	19,159,128	70,197	33,630,275	22,062,088	65.6%
Muir Vlg of	3405	0	131,510	225,224	0	356,734	295,138	82.7%
Mundy Chtr Twp of	2517	1,067,124	226,680	1,274,347	2,070	2,570,221	2,430,672	94.6%
Munising City of	0202	3,360,414	319,681	5,993,082	0	9,673,177	5,943,920	61.4%
Muskegon Area Dist Lib	6117	1,701,107	0	1,205,449	9,091	2,915,647	2,533,828	86.9%
Muskegon Chtr Twp	6108	8,902,013	579,352	14,881,042	7,044	24,369,451	16,886,319	69.3%
Muskegon City of	6116	30,356,507	4,862,687	80,148,953	66,086	115,434,233	91,066,842	78.9%
Muskegon Co	6103	63,135,434	15,330,096	189,597,399	784,678	268,847,607	232,802,461	86.6%
Muskegon CRC	6101	8,740,780	942,559	15,443,349	0	25,126,688	19,836,948	78.9%
Muskegon HC	6113	413,906	27,296	490,971	0	932,173	708,189	76.0%
Muskegon Heights City of	6102	7,448,495	1,075,061	27,510,151	238,002	36,271,709	21,674,929	59.8%
Muskegon Heights HC	6115	997,993	5,398	508,023	1,331	1,512,745	1,001,568	66.2%
N Houghton Co Wtr&Swg Auth	3106	395,665	34,200	292,189	0	722,054	548,345	75.9%
N Muskegon City of	6104	1,686,410	223,908	5,128,246	0	7,038,564	5,357,802	76.1%
Nashville Vlg of	0807	513,577	2,856	0	18,009	534,442	511,175	95.6%
Negaunee City of	5203	3,285,563	724,879	9,562,019	0	13,572,461	7,145,702	52.6%
Negaunee Twp	5217	314,241	2,303	420,417	927	737,888	682,171	92.4%
Network180	4109	10,923,367	4,617,330	22,953,986	152,594	38,647,277	35,559,984	92.0%
New Baltimore City of	5016	8,538,993	755,057	8,934,548	40,046	18,268,644	14,954,545	81.9%
New Buffalo City of	1113	1,095,524	114,574	1,285,403	62,555	2,558,056	2,346,209	91.7%
New Buffalo Twp	1121	392,532	0	54,002	0	446,534	453,128	101.5%
Newaygo CMH	6207	0	36,286	3,210,877	0	3,247,163	3,581,463	110.3%
Newaygo Co	6201	3,898,831	2,007,213	20,675,926	0	26,581,970	21,817,232	82.1%
Newaygo CRC	6212	4,706,130	178,511	6,555,813	240	11,440,694	9,248,357	80.8%
Newaygo MCF	6204	5,119,016	779,804	8,151,718	408,786	14,459,324	13,962,635	96.6%
Newaygo Soil & Wtr Cnstrv Dist	6205	41,752	0	154,439	3,252	199,443	191,686	96.1%
Newberry Vlg of	4802	751,768	231,369	3,887,498	0	4,870,635	2,955,828	60.7%
Niles City of	1115	14,263,185	228,797	25,879,662	16,725	40,388,369	31,930,152	79.1%
Niles Dist Lib	1105	608,100	54,617	486,324	16,392	1,165,433	984,238	84.5%
Northern Lakes CMH Auth	2808	2,589,637	825,473	21,966,670	0	25,381,780	21,009,651	82.8%
Northfield Twp	8117	2,152,466	304,687	0	0	2,457,153	2,329,280	94.8%
Northpointe Bhvrl Hlth Sys	2207	4,422,774	1,850,567	7,668,958	33,165	13,975,464	12,184,962	87.2%
Northville Chtr Twp	8230	20,910,809	552,502	24,538,326	2,443	46,004,080	46,419,381	100.9%
Northville City of	8208	2,822,399	1,279,931	17,083,980	0	21,186,310	13,879,257	65.5%
Northville Dist Lib	8229	1,736,581	105,857	1,799,273	0	3,641,711	2,864,976	78.7%
Norton Shores City of	6106	19,293,582	973,443	28,264,723	27,410	48,559,158	24,459,685	50.4%
Norway City of	2204	7,413,148	382,457	13,691,794	3,336	21,490,735	9,109,765	42.4%
Nottawaseppi Huron Band	8403	733,210	14,077	48,099	1,189	796,575	684,714	86.0%
Novi City of	6320	36,575,006	3,762,896	63,503,805	122,834	103,964,541	67,604,069	65.0%
NW Mich Cmnty Hlth Agcy	1502	1,860,888	174,201	4,711,325	0	6,746,414	5,368,353	79.6%
NW Rgnl Arpt Comm	2805	2,682,245	115,716	4,606,018	0	7,403,979	6,647,203	89.8%
Oceana Co	6402	18,551,149	2,879,860	22,521,861	110,757	44,063,627	33,458,906	75.9%
Oceola Twp	4717	1,019,039	38,999	591,334	6,017	1,555,389	1,453,595	93.5%
Ogemaw Co	6502	9,293,694	859,469	20,966,965	61,622	31,181,750	22,919,644	73.5%
Ogemaw Co EMS Auth	6508	2,196,402	353,913	1,909,779	38,622	4,498,716	3,604,284	80.1%
Ogemaw CRC	6503	3,678,200	9,773	7,528,072	0	11,216,045	6,529,059	58.2%
Olive Twp	7009	216,075	0	230,909	0	446,984	291,280	65.2%
Onaway City of	7105	362,883	84,719	478,212	0	925,814	815,785	88.1%
Ontonagon Co	6602	4,673,514	721,512	5,720,960	6,315	11,122,301	7,613,251	68.5%
Ontonagon Co Economic Dev Corp	6605	0	0	97,676	0	97,676	47,311	48.4%
Ontonagon CRC	6604	6,997,947	135,365	18,642,396	0	25,775,708	12,574,094	48.8%
Ontonagon Vlg of	6603	944,743	1,377,397	11,670,966	146,303	14,139,409	7,768,522	54.9%
Orchard Lake City of	6312	855,993	69,196	5,220,897	206	6,146,292	4,746,582	77.2%
Oronoko Chtr Twp	1114	921,126	168,663	1,497,996	16,127	2,603,912	1,661,091	63.8%
Osceola Co	6701	10,679,555	2,941,626	8,110,183	44,036	21,775,400	18,049,591	82.9%
Osceola CRC	6703	2,701,457	0	5,517,988	0	8,219,445	4,576,366	55.7%
Oscoda Chtr Twp	3503	890,935	238,747	3,350,003	9,677	4,489,362	2,771,658	61.7%
Oscoda Co	6801	3,841,038	415,844	6,869,599	53,665	11,180,146	7,713,550	69.0%
Oscoda Co Lib	6803	117,975	0	0	0	117,975	155,828	132.1%
Oscoda Wurtsmith Arpt Auth I	6802	208,809	0	293,765	0	502,574	368,816	73.4%
Otisville Vlg of	2506	358,001	3,336	953,498	0	1,314,835	917,445	69.8%
Otsego Co	6902	8,737,707	2,632,206	12,599,920	9,526	23,979,359	15,735,626	65.6%
Otsego CRC	6901	3,898,743	814,033	8,231,586	250	12,944,612	7,846,238	60.6%
Ottawa Co	7003	131,924,897	16,513,318	154,074,407	842,687	303,355,309	242,408,003	79.9%
Ottawa Co Central Disp Auth	7008	651,070	69,941	1,655,334	9,460	2,385,805	2,137,461	89.6%



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		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Ottawa CRC	7002	16,312,085	1,238,797	39,441,933	19,070	57,011,885	34,071,354	59.8%
Otter Lake Vlg of	4408	0	0	173,332	0	173,332	122,686	70.8%
Owosso City of	7607	1,141,476	44,259	4,025,963	0	5,211,698	3,232,622	62.0%
Oxford Fire Department	6327	2,657,607	154,643	3,322,812	0	6,135,062	4,121,444	67.2%
Oxford Vlg of	6326	1,688,463	447,112	1,513,733	1,593	3,650,901	2,327,581	63.8%
Parchment City of	3901	541,084	415,285	2,302,882	0	3,259,251	2,041,307	62.6%
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	5,663,357	3,480,235	44,545,205	42,386	53,731,183	25,793,524	48.0%
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	1,188,451	0	1,025,395	0	2,213,846	1,750,700	79.1%
Paw Paw Vlg of	8002	4,324,711	182,933	5,727,590	25,096	10,260,330	7,592,795	74.0%
Pellston Vlg of	2404	351,291	0	251,167	0	602,458	482,779	80.1%
Pennfield Chtr Twp	1312	1,957,017	214,712	1,103,799	0	3,275,528	2,292,377	70.0%
Pentwater Vlg of	6401	498,103	164,694	1,557,926	30,217	2,250,940	1,666,495	74.0%
Perrinton Vlg of	2909	96,733	35,188	0	3,369	135,290	122,474	90.5%
Petersburg City of	5807	517,054	126,347	0	0	643,401	673,304	104.6%
Petoskey City of	2402	11,376,006	622,746	16,436,641	7,322	28,442,715	23,282,372	81.9%
Pewamo Vlg of	3407	384,316	0	0	0	384,316	318,967	83.0%
Pigeon Vlg of	3203	451,425	228,963	567,890	0	1,248,278	835,585	66.9%
Pinckney Vlg of	4706	1,461,182	151,530	1,700,467	11,559	3,324,738	2,816,314	84.7%
Pinconning City of	0904	423,758	193,125	1,635,531	0	2,252,414	1,256,476	55.8%
Pittsfield Chtr Twp	8110	22,411,905	1,728,188	16,729,682	227,634	41,097,409	29,709,530	72.3%
Pleasant Ridge City of	6301	1,736,811	337,431	4,262,177	14,788	6,351,207	3,337,685	52.6%
Plymouth Chtr Twp of	8238	12,851,327	662,690	20,826,750	92,760	34,433,527	24,292,325	70.5%
Plymouth City of	8202	0	156,233	15,920,352	0	16,076,585	9,040,021	56.2%
Plymouth Dist Lib	8221	1,400,621	14,889	3,448,383	0	4,863,893	3,705,560	76.2%
Pokagon Band of Potawatomi	8401	22,594,708	2,563,955	4,205,355	380,744	29,744,762	28,547,156	96.0%
Port Austin Area Swr&Wtr Auth	3210	0	0	86,492	7,612	94,104	170,405	181.1%
Port Austin Vlg of	3208	250,279	4,849	466,559	12,992	734,679	533,925	72.7%
Port Huron Chtr Twp	7711	2,118,147	146,737	1,753,012	0	4,017,896	2,750,423	68.5%
Port Huron City of	7702	31,399,298	2,334,979	120,042,951	64,017	153,841,245	84,834,041	55.1%
Port Huron HC	7712	2,670,417	155,166	6,486,632	1,296	9,313,511	6,271,461	67.3%
Port Sanilac Vlg of	7403	540,100	58,103	871,592	4,632	1,474,427	889,068	60.3%
Port Sheldon Twp	7018	468,855	0	540,050	0	1,008,905	1,025,585	101.7%
Portland City of	3401	5,454,318	753,538	8,392,912	272	14,601,040	9,204,747	63.0%
Pottersville City of	2313	162,953	201,528	695,920	2,124	1,062,525	757,784	71.3%
Presque Isle Co	7104	4,928,279	581,894	8,757,042	32,989	14,300,204	9,300,753	65.0%
Presque Isle CRC	7101	3,131,573	0	7,058,678	218	10,190,469	5,240,798	51.4%
PRIDE Youth Programs CLD	6210	0	0	524,036	0	524,036	319,090	60.9%
Ravenna Vlg of	6111	382,150	45,336	213,511	0	640,997	627,771	97.9%
Reading City of	3003	252,998	48,325	175,164	0	476,487	410,007	86.0%
Redford Chtr Twp of	8209	12,022,705	2,251,554	38,421,182	29,137	52,724,578	29,874,229	56.7%
Redford Twp Dist Lib	8228	1,619,599	80,428	1,468,546	0	3,168,573	2,686,332	84.8%
Reed City City of	6702	2,562,301	364,298	4,411,515	858	7,338,972	4,637,409	63.2%
Richfield Twp (Genesee Co)	2514	1,693,258	289,215	3,589,118	3,632	5,575,223	3,214,081	57.6%
Richfield Twp (Roscommon Co)	7202	940,584	221,863	2,021,319	19,603	3,203,369	2,144,933	67.0%
Richland Twp	7310	750,059	16,465	4,598,168	1,816	5,366,508	2,825,278	52.6%
Richmond City of	5012	1,753,527	0	1,330,136	0	3,083,663	2,190,495	71.0%
Rochester City of	6307	8,334,142	583,885	14,201,916	83,692	23,203,635	15,468,281	66.7%
Rockford City of	4103	3,496,042	1,177,122	5,147,783	0	9,820,947	6,403,130	65.2%
Rockwood City of	5810	1,296,317	253,311	1,280,925	0	2,830,553	2,583,006	91.3%
Rockwood HC	8267	3,002	0	0	0	3,002	1,769	58.9%
Rogers City City of	7102	2,879,590	399,672	8,094,686	7,570	11,381,518	5,342,974	46.9%
Romeo Dist Lib	5006	733,179	387,397	2,380,712	4,093	3,505,381	2,905,398	82.9%
Romeo Vlg of	5005	3,180,311	44,327	5,834,131	0	9,058,769	5,497,854	60.7%
Romulus City of	8225	13,846,062	1,048,233	39,687,178	100,849	54,682,322	22,393,173	41.0%
Roosevelt Park City of	6107	2,217,642	456,003	3,732,435	0	6,406,080	3,557,619	55.5%
Roscommon Co	7201	10,429,407	2,071,236	16,274,685	30,182	28,805,510	21,217,798	73.7%
Roscommon Co Trans Auth	7205	1,019,610	0	2,274,391	0	3,294,001	2,635,495	80.0%
Rose City City of	6504	274,815	16,429	433,711	2,041	726,996	599,190	82.4%
Rose Twp	6506	100,531	0	73,957	0	174,488	396,171	227.0%
Royal Oak Chtr Twp of	6306	260,447	1,137	2,149,274	41,539	2,452,397	4,055,848	165.4%
Saginaw Chtr Twp	7314	4,943,919	512,300	16,010,263	35,760	21,502,242	20,536,284	95.5%
Saginaw City of	7301	40,152,125	2,013,439	301,719,676	105,213	343,990,453	174,331,070	50.7%
Saginaw Co	7303	7,678,028	2,799,988	136,607,702	9,236	147,094,954	118,548,171	80.6%
Saginaw Co 911 Com Ctr	7316	499,989	663,547	12,252,434	0	13,415,970	9,450,635	70.4%
Saginaw Co CMH	7318	2,282,979	1,158,094	14,410,793	153	17,852,019	10,929,271	61.2%
Saginaw CRC	7304	11,293,102	625,471	23,189,798	4,670	35,113,041	23,669,490	67.4%
Saginaw HC	7321	285,294	764,770	3,439,797	22,218	4,512,079	2,276,012	50.4%
Saginaw Pub Lib of	7317	831,749	509,631	644,465	26,112	2,011,957	2,910,036	144.6%
Saginaw Trans Sys Auth	7319	794,628	462,256	1,229,374	0	2,486,258	2,646,944	106.5%
Saginaw-Midland Muni Wtr Corp	7305	739,654	465,439	4,122,315	0	5,327,408	3,614,274	67.8%
Saline City of	8105	10,374,199	484,701	17,866,148	0	28,725,048	18,584,806	64.7%
Sandusky City of	7402	1,451,705	268,702	3,447,877	23,788	5,192,072	2,922,003	56.3%
Sandusky Dist Lib	7404	227,630	0	43,853	0	271,483	270,057	99.5%
Sanilac CRC	7410	4,873,890	0	3,926,281	155	8,800,326	7,579,506	86.1%
Saranac HC	3413	621,548	0	283,202	0	904,750	624,979	69.1%
Saugatuck City of	0307	439,462	51,332	1,453,067	0	1,943,861	1,702,869	87.6%
Saugatuck Twp	0305	263,748	59,869	489,851	0	813,468	359,021	44.1%
Saugatuck Twp Fire Dist	0313	245,343	0	263,361	0	508,704	392,532	77.2%



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Appendix B: Accrued Liabilities and Assets

Municipality Name	Number	Actuarial Accrued Liability				Total Liability	Actuarial Value of Assets ¹	Percent Funded
		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Sault Ste. Marie City of	1701	10,098,474	638,456	20,827,044	37,633	31,601,607	21,099,559	66.8%
Sault Ste. Marie HC	4906	409,093	140,152	1,718,112	17,217	2,284,574	2,202,235	96.4%
Sault Ste. Marie Tribe of Chippewa Indians	8404	422,996	8,210	11,326	1,453	443,985	456,511	102.8%
SCCMUA	1905	1,782,895	405,703	2,225,255	27,074	4,440,927	3,800,309	85.6%
Schoolcraft Co	7503	8,407,205	2,533,406	25,028,321	186,683	36,155,615	22,590,339	62.5%
Schoolcraft Co Trans Auth	7506	556,509	0	1,036,750	2,627	1,595,886	869,541	54.5%
Schoolcraft CRC	7501	1,989,732	797,455	13,036,414	0	15,823,601	7,422,172	46.9%
Schoolcraft Memorial Hosp	7505	4,906,294	3,411,533	15,846,689	15,735	24,180,251	19,855,395	82.1%
Scio Twp	8116	3,489,844	0	368,557	15,871	3,874,272	3,254,972	84.0%
Scottville City of	5308	464,103	35,107	314,821	0	814,031	700,291	86.0%
SE Oakland Co Rsrc Rec Auth	6310	2,210,407	186,428	3,687,025	0	6,083,860	4,046,565	66.5%
SE Oakland Co Wtr Auth	6309	4,038,685	1,375	5,933,108	0	9,973,168	9,595,721	96.2%
Sebewaing Vlg of	3205	2,520,327	389,837	5,100,120	42,762	8,053,046	8,426,845	104.6%
SEMCOG	8210	14,166,583	2,082,629	17,412,231	0	33,661,443	28,263,948	84.0%
Shepherd Vlg of	3704	582,882	0	129,306	10,566	722,754	712,817	98.6%
Shiawassee Co	7602	32,314,006	8,791,991	80,418,780	102,701	121,627,478	80,946,527	66.6%
Shiawassee Council on Aging	7605	81,474	7,763	666,213	0	755,450	511,174	67.7%
Shiawassee CRC	7601	5,186,673	2,358,794	13,601,966	6,519	21,153,952	16,964,844	80.2%
Shiawassee Dist Lib	7606	1,259,179	46,104	773,236	11,107	2,089,626	2,107,214	100.8%
Shiawassee Hlth & Wellness	7609	7,475,366	2,945,053	6,585,174	0	17,005,593	14,106,994	83.0%
Sims Whitney Util Auth	0606	98,836	0	302,444	0	401,280	320,342	79.8%
SMART	8216	92,100,367	11,485,753	156,817,610	374,618	260,778,348	197,422,542	75.7%
South Haven Area ESA	8005	5,330,494	0	3,012,798	0	8,343,292	5,730,665	68.7%
South Haven City of	8001	11,536,839	1,159,329	18,223,475	122,142	31,041,785	25,226,605	81.3%
South Lyon City of	6315	9,331,975	856,833	7,152,299	18,316	17,359,423	11,810,125	68.0%
Southgate City of	8262	9,054,088	263,790	21,132,672	0	30,450,550	19,855,440	65.2%
Sparta Vlg of	4107	2,895,772	151,386	2,237,689	7,581	5,292,428	3,887,782	73.5%
Spring Lake Dist Lib	7016	1,450,936	9,358	640,323	2,977	2,103,594	2,222,662	105.7%
Spring Lake Vlg of	7015	749,527	592,318	3,388,307	4,954	4,735,106	3,400,326	71.8%
Springfield City of	1303	1,231,737	1,490,782	7,711,266	21,213	10,454,998	7,310,393	69.9%
St Charles Vlg of	7308	939,907	77,926	3,529,501	0	4,547,334	2,825,720	62.1%
St Clair City of	7703	4,232,694	327,241	19,159,788	0	23,719,723	12,940,468	54.6%
St Clair HC	7715	0	0	758,629	0	758,629	311,942	41.1%
St Clair Shores HC	5007	693,804	0	2,003,690	4,762	2,702,256	1,435,825	53.1%
St Ignace City of	4904	3,896,276	302,082	8,898,202	594	13,097,154	7,479,261	57.1%
St Johns City of	1902	3,666,900	174,685	13,718,034	100	17,559,719	9,312,571	53.0%
St Joseph Co	7803	17,784,757	2,741,752	27,314,579	55,962	47,897,050	43,526,563	90.9%
St Joseph Twp	1122	2,299,012	0	0	0	2,299,012	2,322,591	101.0%
St Louis City of	2902	1,528,762	174,618	5,945,556	521	7,649,457	6,301,326	82.4%
St Louis HC	2908	884,573	0	246,068	0	1,130,641	1,022,688	90.5%
Stambaugh Twp	3615	139,559	0	40,668	0	180,227	111,637	61.9%
Standish City of	0601	156,886	79,499	2,459,143	0	2,695,528	1,896,367	70.4%
Stanton City of CLD	5903	0	0	53,133	0	53,133	97,784	184.0%
Stephenson City of	5504	625,297	0	153,163	0	778,460	484,432	62.2%
Sterling Vlg of	0605	208,109	0	38,333	0	246,442	355,973	144.4%
Stockbridge Vlg of	3316	268,847	293,185	548,728	14,812	1,125,572	761,706	67.7%
Sturgis HC	7805	141,732	30,340	0	0	172,072	173,096	100.6%
Summit Twp	3803	6,953,813	518,368	8,710,183	0	16,182,364	9,829,201	60.7%
Sumpter Twp	8226	6,016,821	509,453	3,328,449	39,242	9,893,965	7,989,387	80.8%
Superior Chtr Twp	8109	3,717,588	26,550	4,497,346	20,387	8,261,871	5,640,741	68.3%
Superior Dist Lib	1702	423,519	0	490,995	999	915,513	1,353,443	147.8%
Superiorland Lib Coop	5208	0	21,734	997,747	0	1,019,481	791,466	77.6%
Suttons Bay Bingham Fire Auth	4506	1,346,618	35,173	262,128	186	1,644,105	1,009,046	61.4%
SW Mich Comm Amb Svcs	1119	1,958,691	238,356	1,060,150	36,999	3,294,196	2,853,488	86.6%
SW Shiawassee ESA	7611	1,162,710	44,729	180,752	3,375	1,391,566	1,251,717	90.0%
Swan Creek Twp	7309	131,121	0	685,316	464	816,901	622,058	76.1%
Swartz Creek City of	2504	790,250	0	5,966,364	0	6,756,614	6,484,367	96.0%
Sylvan Lake City of	6314	1,854,284	24,305	1,026,063	19,756	2,924,408	2,713,335	92.8%
Tawas Police Auth	3504	108,062	250,876	806,959	8,089	1,173,986	604,766	51.5%
Taylor HC	8231	462,860	0	273,427	12,737	749,024	721,282	96.3%
The Lib Network	8218	4,375,641	396,596	3,372,473	63,135	8,207,845	6,356,190	77.4%
Three Rivers City of	7801	6,761,777	2,063,054	10,670,224	27,745	19,522,800	13,484,044	69.1%
Tittabawassee Twp	7322	2,202,346	131,753	1,493,851	2,457	3,830,407	3,735,615	97.5%
Traverse Area Dist Lib	2807	3,199,035	478,970	3,438,175	14,383	7,130,563	6,067,768	85.1%
Traverse City City of	2801	10,756,622	1,236,366	27,813,957	0	39,806,945	24,289,786	61.0%
Traverse City Light & Power	2811	6,906,610	431,059	24,209,785	0	31,547,454	20,332,451	64.5%
Trenton City of	8203	5,805,461	62,444	40,549,505	1,575	46,418,985	27,909,246	60.1%
Tri-County Aging Consortium	3307	4,457,930	923,887	4,948,271	0	10,330,088	9,250,262	89.5%
Trio Council on Aging Inc CLD	6507	0	26,825	265,252	0	292,077	284,971	97.6%
Tuscarora Twp	1604	1,456,003	118,193	1,087,662	4,212	2,666,070	1,829,014	68.6%
Tuscola Co	7902	16,247,049	1,920,112	18,766,424	169,777	37,103,362	35,199,062	94.9%
Tuscola Co CMH	7907	9,344,809	766,935	7,777,710	340,444	18,229,898	16,908,529	92.8%
Tuscola Co Hlth Dpt	7901	4,287,317	0	7,930,134	24,281	12,241,732	11,013,902	90.0%
Tuscola Co MCF	7906	10,337,203	827,301	7,100,519	410,636	18,675,659	17,181,538	92.0%
Tuscola CRC	7908	1,918,610	393,519	4,226,700	1,910	6,540,739	4,926,942	75.3%
Twin City Pub Safety Auth CLD	3610	0	23,095	70,875	0	93,970	107,740	114.7%
Ubyly Vlg of	3212	303,317	91,434	633,835	3,528	1,032,114	739,262	71.6%
Utica City of	5008	2,173,457	0	3,964,476	15,173	6,153,106	3,809,645	61.9%



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		Active Liability	Vested Former Liability	Retired Liability	Pending Refund Liability			
Van Buren Co	8006	19,040,089	1,793,377	19,731,564	367,285	40,932,315	27,901,049	68.2%
Van Buren Dist Lib	8007	897,585	104,367	1,183,507	17,327	2,202,786	1,944,003	88.3%
Van Buren Twp	8236	12,288,423	1,664,738	7,481,604	25,177	21,459,942	16,123,777	75.1%
Vassar City of	7903	1,070,837	511,106	6,005,259	86	7,587,288	4,495,087	59.2%
Vevay Twp	3318	179,080	0	485,563	1,606	666,249	368,005	55.2%
Vicksburg Dist Lib	3904	0	1,145	148,440	0	149,585	84,508	56.5%
Vicksburg Vlg of	3902	597,821	620,387	1,681,342	145	2,899,695	2,038,212	70.3%
Vienna Chtr Twp of	2522	486,324	21,793	1,464,096	0	1,972,213	1,176,112	59.6%
W Iron Co Swr Auth	3612	300,958	21,665	934,440	0	1,257,063	578,060	46.0%
W Mich CMH Sys	5304	533,912	546,009	4,309,921	24,192	5,414,034	4,525,162	83.6%
W Mich Shoreline Rgnl Dev Comm	6110	1,138,698	121,653	2,925,759	0	4,186,110	4,601,732	109.9%
W UP Dist Hlth Dept	3101	1,507,493	2,413,511	10,872,579	6,720	14,800,303	9,538,364	64.4%
Wakefield City of	2701	1,329,415	98,588	3,535,759	14,143	4,977,905	2,630,456	52.8%
Walker City of	4112	9,158,406	454,961	15,306,688	0	24,920,055	16,709,625	67.1%
Walled Lake City of	6324	4,792,437	1,331,105	9,513,803	57,915	15,695,260	5,075,913	32.3%
Washtenaw Co	8113	78,189,406	2,959,170	47,649,079	574,053	129,371,708	96,719,262	74.8%
Washtenaw CRC	8102	21,131,511	1,841,831	47,514,364	208,912	70,696,618	38,963,411	55.1%
Wayland City of	0304	2,451,652	279,491	5,775,610	0	8,506,753	5,855,868	68.8%
Wayne City of	8242	15,870,824	3,247,264	96,364,081	133,814	115,615,983	68,036,290	58.8%
Wayne HC	8252	213,729	0	671,693	0	885,422	635,749	71.8%
Webberville Vlg of	3314	148,186	158,314	246,537	1,391	554,428	554,821	100.1%
West Branch City of	6505	1,294,489	193,135	4,772,521	13,950	6,274,095	3,992,355	63.6%
West Branch Dist Lib	6509	245,646	0	191,799	13,922	451,367	446,221	98.9%
WestlandCity of	8211	27,077,216	3,761,753	109,549,224	18,157	140,406,350	58,718,582	41.8%
Westphalia Vlg of	1907	118,143	0	587,621	0	705,764	505,882	71.7%
Wexford Co	8302	11,088,958	2,701,251	17,308,816	48,960	31,147,985	20,850,893	66.9%
Wexford CRC	8303	5,439,380	971,170	8,997,823	14,845	15,423,218	14,324,159	92.9%
White Cloud City of	6206	285,718	74,039	716,537	0	1,076,294	694,513	64.5%
White Cloud Cmnty Lib	6208	409,162	3,567	100,801	0	513,530	457,918	89.2%
White Cloud/Sherman Util	6211	209,073	0	290,712	0	499,785	310,978	62.2%
White Lake Chtr Twp	6325	15,330,011	1,128,754	17,150,530	105,929	33,715,224	24,412,284	72.4%
White Pigeon Vlg of	7804	95,554	37,569	149,506	2,242	284,871	257,522	90.4%
White Pine Dist Lib	5904	63,383	0	198,463	0	261,846	144,955	55.4%
Whitehall City of	6105	2,396,241	103,994	4,034,814	0	6,535,049	4,685,565	71.7%
Willard Pub Lib	1308	3,228,457	65,152	1,301,212	11,207	4,606,028	3,965,691	86.1%
Williamston City of	3310	1,176,412	134,778	3,601,462	10,906	4,923,558	3,518,088	71.5%
Wixom City of	6316	11,183,902	1,294,923	24,727,926	16,242	37,222,993	36,402,801	97.8%
Wolverine Lake Vlg of	6329	1,368,954	378,555	1,861,713	22,613	3,631,835	2,284,038	62.9%
WUAPPDR	3108	146,534	57,966	1,235,361	0	1,439,861	1,177,600	81.8%
Ypsilanti City of	8101	4,996,582	785,607	9,386,716	115,372	15,284,277	19,726,277	129.1%
Ypsilanti Cmnty Util Auth	8106	20,042,023	2,008,042	34,702,974	28,107	56,781,146	33,803,685	59.5%
Ypsilanti HC	8115	97,000	137,326	698,964	11,207	944,497	776,698	82.2%
Ypsilanti Twp of	8104	10,907,528	1,018,405	11,188,290	108,851	23,223,074	16,929,967	72.9%
Totals - Active Groups	729	4,443,195,655	608,616,346	9,324,589,473	29,630,516	14,406,031,990	9,787,512,766	
Totals - Closed Groups	16	0	2,609,644	15,469,349	51,408	18,130,401	20,414,185	
Totals- MERS	745	4,443,195,655	611,225,990	9,340,058,822	29,681,924	14,424,162,391	9,807,926,951	

¹ For Closed Employers the Actuarial Value of Assets is equal to the Market Value of Assets.



MERS 12/31/2018 Valuation – Results By Municipality

Appendix C: Annual Employer Contribution Requirements

Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
21st Dist Ct	8243	43,668	82,788	126,456
23rd Jud Dist Ct	8223	20,460	89,964	110,424
26th Jud Cir Ct	0403	52,212	49,668	101,880
34th Dist Ct	8235	195,660	310,440	506,100
35th Dist Ct	8234	(19,944)	174,168	154,224
41 B Dist Ct	5014	112,356	208,524	320,880
Addison Fire Dept	4607	10,680	2,604	13,284
Adrian City of	4601	320,880	1,562,316	1,903,860
Aitkin Memorial Dist Lib	7407	0	(7,512)	0
Albion City of	1301	77,544	130,092	231,168
Alcona Co	0101	214,284	561,396	775,680
Alger Co	0203	191,412	339,084	538,260
Alger CRC	0201	108,612	284,388	393,000
Algonac City of	7707	17,076	106,356	124,092
Allegan City of	0309	94,512	124,332	219,768
Allegan Co	0302	308,436	682,608	991,044
Allegan CRC	0301	155,688	834,840	990,528
Alma City of	2901	181,872	526,488	851,592
Almont Vlg of	4407	41,868	43,272	85,140
Alpena Co	0401	287,136	662,328	949,464
Alpena CRC	0402	67,800	396,996	464,796
Alpena HC	0406	44,664	(6,432)	38,232
Alpena Sr Citizens Ctr	0404	0	117,888	117,888
Alpha Vlg of	3614	600	(3,984)	0
Antrim Co	0502	849,000	994,548	1,843,548
Antrim CRC	0501	140,328	532,380	672,708
Arenac Co	0603	93,252	705,708	798,960
Arenac CRC	0604	22,224	338,040	360,264
Armada Twp	5022	21,720	(1,548)	20,172
Ash Twp	5804	23,196	30,780	53,976
Au Gres City of	0602	5,856	78,096	83,952
Auburn City of	0905	60	74,892	77,688
Bad Axe Area Dist Lib	3214	4,608	(108)	4,500
Bad Axe City of	3211	52,992	255,780	308,772
Bancroft Vlg of	7610	0	5,448	5,448
Bangor City of	8003	26,016	(58,824)	0
Baraga Co	0702	156,924	159,372	316,296
Baraga Co Memorial Hosp	0703	111,324	683,280	794,604
Baraga CRC	0701	54,324	292,152	346,476
Baraga Vlg of	0704	62,544	178,200	240,744
Baroda Lake Twp Police Dept	1109	27,840	9,012	36,852
Barry Co	0802	1,410,204	1,811,292	3,221,496
Barry Co CMH Auth	0804	317,184	201,060	518,244
Barry Eaton Dist Hlth Dept	2303	71,184	403,272	474,456
Barton Hills Vlg of	8107	4,584	16,092	20,676
Bates Twp	3616	0	18,036	18,036
Bath Chtr Twp	1909	25,212	142,932	168,144
Battle Creek City of	1302	1,585,944	4,960,260	6,561,156
Bay Area Trans Auth	2810	381,984	13,176	395,160
Bay City City of	0901	114,900	6,327,900	6,448,740
Bay City HC	0906	16,416	108,756	125,172
Bay Metro Trans Auth	0907	249,456	531,168	780,624
Beecher Metro Dist Swg&Wtr	2501	42,036	351,648	393,684
Belding City of	3410	23,376	92,496	115,872
Belleville City of	8213	60,132	308,664	368,796
Benton Harbor City of	1120	59,652	1,220,268	1,279,920
Benzie Co	1003	253,536	468,576	722,112
Benzie Co Comm on Aging	1006	0	42,156	42,156
Benzie Co MCF (The Maples)	1004	251,436	146,400	397,836
Benzie CRC	1001	80,268	346,284	426,552
Benzie Shores Dist Lib	1005	0	1,104	1,104
Benzie Trans Auth	1007	20,352	(22,404)	0
Benzie/Leelanau Dist Hlth Dept	4504	13,404	64,788	78,192
Berkley City of	6304	187,068	675,888	867,696
Berrien Springs Vlg of	1102	33,156	22,344	55,500
Bessemer City of	2702	55,704	60,300	116,004
Beverly Hills Vlg of	6321	207,936	403,368	611,304
Big Rapids City of	5402	30,252	722,868	753,120
Big Rapids HC	5406	12,840	91,320	104,160
Bingham Farms Vlg of	6332	10,548	4,104	14,652



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Birch Run Vlg of	7315	15,516	15,780	31,296
Bishop Intl Arpt Auth	2507	160,656	185,328	345,984
Blackman Chtr Twp	3806	(19,596)	385,128	365,532
Blissfield Vlg of	4606	128,244	31,344	159,588
Bloomfield Hills City of	6302	242,376	721,392	963,768
Blue Water Area Trans Comm	7709	346,764	168,276	515,040
Boyne City City of	1506	37,392	391,932	429,324
Boyne City HC	1508	17,880	40,020	57,900
Branch Co	1205	377,412	922,176	1,362,408
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	139,260	193,068	332,328
Brandon Chtr Twp of	6333	96,768	121,416	218,664
BreckenridgeVlg of	2906	13,956	119,424	133,380
Bridgeport Chtr Twp	7307	132,708	205,188	337,896
Bridgman City of	1110	53,880	47,988	101,868
Brighton Area Fire Auth	4715	6,276	(1,140)	5,136
Brighton Chtr Twp of	4711	26,148	21,480	47,628
Brighton City of	4704	278,364	698,172	976,536
Britton Vlg of	4604	1,140	(24,384)	0
Bronson City of	1204	(19,476)	69,240	49,764
Brooklyn Vlg of	3801	23,064	30,384	53,448
Brownstown Chtr Twp of	8247	455,148	618,216	1,073,364
Buchanan City of	1101	91,332	(119,760)	207,924
Buchanan Dist Lib	1108	6,324	(5,556)	768
Buena Vista Chtr Twp	7312	174,816	318,072	492,888
Burton City of	2508	(43,752)	2,288,052	2,259,924
Butman Twp CLD	2604	0	0	0
Cadillac City of	8301	257,772	270,132	527,904
Cadillac/Wexford Trans Auth	8305	81,288	57,732	139,020
Calhoun Co	1311	730,500	1,695,348	2,426,736
Calhoun Co Conso Dispatch Auth	1316	53,832	51,168	105,000
Canton Chtr Twp of	8233	2,104,128	3,851,976	5,956,104
Canton Pub Lib	8232	45,300	15,864	61,164
Capac Vlg of	7705	6,132	137,328	143,460
Capital Area Dist Lib	3317	241,140	150,084	391,224
Capital Region Arprt Auth	3305	219,672	334,848	554,520
Carleton Vlg of	5805	12,192	28,176	40,368
Carrollton Twp	7320	86,496	86,208	172,704
Cascade Chtr Twp	4110	65,412	157,560	222,972
Caseville City of	3207	45,960	71,988	117,948
Caspian City of	3608	11,172	51,324	62,496
Cass Co	1402	469,572	714,648	1,184,220
Cass Co MCF	1403	159,492	53,052	212,544
Cass Dist Lib	1404	23,172	7,572	30,744
Cedar Springs City of	4105	23,700	53,160	76,860
Center Line City of	5001	22,308	346,092	372,336
Central Lake Vlg of	0504	20,556	2,496	23,052
Central Mich Dist Hlth Dept	3705	86,280	1,469,052	1,555,332
Charlevoix City of	1505	171,300	387,228	558,528
Charlevoix Co	1503	1,139,448	1,145,856	2,285,304
Charlevoix CRC	1501	164,496	196,668	361,164
Charlotte City of	2301	174,096	720,276	894,372
Charlotte Dist Lib	2309	21,420	54,372	75,792
Cheboygan City of	1602	91,800	328,788	420,588
Cheboygan Co	1603	551,784	650,724	1,202,508
Cheboygan CRC	1601	140,700	861,984	1,002,684
Chelsea Area Fire Auth	8118	49,200	4,392	53,592
Chelsea City of	8103	13,308	1,032,672	1,045,980
Chesaning Vlg of	7313	2,784	259,872	263,472
Chesterfield Twp	5009	663,204	826,644	1,489,848
Chesterfield Twp Lib	5010	31,056	(23,100)	7,956
Chikaming Twp	1112	42,372	54,588	96,960
Chippewa Co	1703	616,692	1,101,708	1,733,016
Chippewa Co - Emplmt & Trng CLD	1710	0	0	0
Chippewa CRC	1704	312,540	770,292	1,082,832
Chippewa River Dist Lib	3707	59,016	49,776	108,792
Chocolay Chtr Twp of	5218	32,352	(1,140)	31,212
Clare City of	1804	99,888	261,852	361,740
Clare Co	1802	365,004	532,140	897,144
Clare Co Trans Auth	1806	17,052	7,020	24,072
Clare CRC	1801	115,272	389,124	504,396



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Clawson City of	6305	69,348	13,752	83,100
Clay Twp	7706	133,812	288,444	422,256
Clearwater Twp	4005	5,700	3,408	9,108
Clinton Co	1903	576,348	166,896	743,244
Clinton CRC	1901	202,128	744,504	946,632
Clinton Twp	5002	659,772	2,304,480	2,981,724
Clinton Vlg of	4602	35,520	9,360	44,880
Clinton-Eaton-Ingham CMH	3308	3,387,216	3,941,040	7,333,812
Clio City of	2523	43,812	34,872	78,684
CMH for Central Mich	3708	2,353,248	983,316	3,336,564
Coldwater Brd of Pub Util	1203	69,996	701,088	771,084
Coldwater City of	1201	38,184	536,004	574,188
Coleman City of	5603	23,868	71,592	95,460
Coloma Chtr Twp	1107	24,600	61,764	86,364
Coloma City of	1118	9,312	8,052	17,364
Columbiaville Vlg of	4406	4,476	13,536	18,012
Constantine Vlg of	7806	10,284	(5,664)	4,620
Coopersville Area Dist Lib	7011	1,500	13,080	15,996
Coopersville City of	7005	58,620	58,524	117,144
Corunna City of	7604	53,484	150,792	204,276
Corwith Twp	6904	432	396	828
Covert Twp	8010	36,840	45,672	82,512
Crawford Co	2001	140,664	65,052	205,716
Crawford Co Trans Auth	2004	60,228	114,468	174,696
Crawford CRC	2002	132,372	441,300	573,672
Croswell City of	7401	110,136	340,032	450,168
Crystal Falls City of	3603	70,824	349,644	420,468
Crystal Falls Cmnty Hosp CLD	3618	0	50,820	50,820
Ctrl Dispatch of Muskegon Co	6109	101,016	99,588	200,604
Ctrl Wayne Co Sanitation Auth	8214	0	107,724	115,332
Davison Richfield Sr CCA	2525	2,988	10,392	13,380
Davison Twp	2519	68,448	289,668	358,116
DavisonCity of	2516	131,256	540,336	671,592
Dearborn City of	8251	1,964,652	79,824	2,044,476
Deerfield Vlg of	4603	15,084	36,048	51,132
Delta Area Transit Auth	2107	11,484	1,284	12,768
Delta Chtr Twp	2306	67,224	273,672	340,896
Delta Co	2102	257,208	1,491,936	1,749,144
Delta CRC	2105	132,288	486,084	618,372
Delta-Menominee Dist Hlth Dept	2103	174,156	108,192	282,348
Detour Vlg of	1706	22,512	24,300	46,812
Detroit HC	8241	313,080	52,872	400,764
DeWitt Chtr Twp	1910	78,708	153,768	232,476
DeWitt City of	1908	56,352	185,952	242,304
Dexter Area Fire Dept	8219	35,184	39,480	74,664
Dexter City of	8217	24,624	93,948	118,572
Dexter Twp	8111	5,724	18,252	23,976
Dickinson Co	2206	301,092	1,147,440	1,448,532
Dickinson CRC	2203	80,064	559,368	639,432
Dickinson-Iron Dist Hlth Dept	3605	82,428	582,264	664,692
DimondaleVlg of	2304	4,356	19,728	24,084
Dist Hlth Dept # 2	6501	20,772	616,200	636,972
Dist Hlth Dept # 4	7103	89,484	635,184	724,668
Dist Hlth Dept #10	5104	414,684	837,072	1,251,756
Douglas City of Vlg of	0303	91,104	3,060	94,164
Dowagiac City of	1401	148,200	801,600	949,800
Dowagiac Dist Lib	1406	6,696	984	7,680
Dowagiac HC	1405	16,920	(492)	16,428
Drummond Island Twp	1708	10,740	1,536	12,276
Dryden Vlg of	4405	3,804	12,888	16,692
Dundee Vlg of	5803	10,980	138,864	149,844
Durand City of	7603	84,984	166,416	251,400
E UP Reg Planning & Dev Comm	1709	15,492	(14,052)	1,440
E UP Trans Auth	1705	142,836	511,584	654,420
East China Chtr Twp	7701	73,428	252,600	326,028
East Grand RapidsCity of	4101	28,512	1,545,684	1,615,452
East Jordan City of	1504	70,908	133,776	204,684
East Lansing City of	3301	1,834,488	7,390,932	9,225,420
Eastpointe City of	5019	601,080	3,503,928	4,105,008
Eastpointe HC	5011	22,020	18,360	40,380



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Eaton Co	2302	986,208	4,732,284	5,718,492
Eaton Co Hlth & Rehab Svcs	2305	399,708	65,268	464,976
Eaton Rapids City of	2307	135,192	456,480	591,672
Eau Claire Vlg of	1104	(12)	23,004	22,992
Ecorse City of	8206	142,296	3,219,204	3,379,776
Elk Rapids Vlg of	0506	61,728	58,368	120,096
Elkton Vlg of	3206	576	37,188	49,560
Elsie Vlg of CLD	1906	0	0	0
Emmet CRC	2401	68,424	822,372	890,796
Emmett Chtr Twp	1310	20,412	103,320	123,732
Erie Twp of	5812	12,384	(1,908)	10,476
Escanaba City of	2101	147,012	1,849,272	1,996,284
Essexville City of	0903	52,032	222,504	301,836
Ewart City of	6705	41,256	48,924	90,180
Ewart Local Dev Finance Auth	6706	5,160	21,408	26,568
Farmington City of	6343	385,680	459,768	886,956
Farmington Cmnty Lib	6319	20,568	97,260	117,828
Farwell Vlg of	1805	11,160	12,492	23,652
Fenton City of	2505	277,980	505,236	786,300
Ferndale HC	6345	7,332	29,496	36,828
Ferrysburg City of	7106	18,684	64,464	83,148
Flat Rock City of	8212	135,504	1,542,852	1,696,548
Flint Chtr Twp of	2512	202,836	990,588	1,193,424
Flint City of	2530	1,142,808	30,817,716	32,018,472
Flint Pub Lib	2518	71,196	(23,100)	48,096
Flushing Chtr Twp of	2515	33,624	160,848	194,472
Flushing City of	2502	78,192	773,112	851,304
Forsyth Twp	5212	93,792	267,744	365,952
Fowler Vlg of	1904	13,704	8,424	22,128
Fowlerville Dist Lib	4710	13,980	12,492	26,472
Fowlerville Vlg of	4705	9,600	29,628	39,228
Frankenmuth City of	7306	105,648	375,648	481,296
Frankenmuth Wickson Dist Lib	7323	0	6,480	6,480
Frankfort City of	1002	44,772	132,120	176,892
Franklin Vlg of	6323	52,032	260,040	328,128
Fraser City of	5003	479,388	2,191,236	2,701,572
Fremont Area Dist Lib	6209	30,660	29,088	59,748
Fremont City of	6203	179,472	439,272	618,744
Gaastra City of	3617	8,100	12,960	21,060
Garden City City of	8255	458,328	2,823,228	3,281,556
Gaylord City of	6903	170,520	454,788	625,308
Genesee Chtr Twp	2510	164,316	731,616	895,932
Genoa Twp	4713	22,260	5,364	27,624
Gerald R Ford Intl Arpt Auth	4116	622,224	(902,244)	288,228
Gladstone City of	2106	33,528	1,036,500	1,070,028
Gladwin City HC	2608	39,624	81,672	121,296
Gladwin City of	2605	51,720	19,140	70,860
Gladwin Co	2602	254,292	590,316	844,608
Gladwin Co Dist Lib	2607	13,068	23,232	36,300
Gladwin CRC	2601	68,268	422,712	490,980
Gogebic-Iron WWTR Auth	2703	39,828	83,928	123,756
Grand Beach Vlg of	1117	26,124	36	26,160
Grand Blanc Chtr Twp	2511	197,496	941,940	1,139,436
Grand Blanc City of	2513	111,804	88,692	200,496
Grand Haven City of	7010	455,028	1,931,328	2,386,356
Grand Ledge Area Dist. Library	2316	5,340	120	5,460
Grand Ledge Area ESA	2310	63,624	24,744	88,368
Grand Ledge City of	2312	28,848	99,828	128,676
Grand Rapids HC	4108	9,888	219,240	229,128
Grand Traverse Co	2803	268,524	4,608,804	4,887,240
Grand Traverse CRC	2802	7,776	(73,272)	0
Grand Traverse Pavilions	2809	850,548	659,136	1,509,684
Grandville City of	4102	57,684	1,150,968	1,208,652
Gratiot Co	2905	151,152	390,408	541,560
Gratiot CRC	2903	201,252	534,660	735,912
Grayling City of	2003	24,000	286,608	310,608
Green Oak Chtr Twp	4708	106,260	238,368	344,628
Greenville City of	5906	(73,032)	149,304	76,272
Grosse Ile Twp	8207	423,588	1,022,436	1,446,024
Grosse Pointe Park City of	8201	281,544	1,605,048	1,886,592



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Grosse Pointe-Clinton Ref CLD	5004	0	43,920	43,920
Groveland Twp	6335	42,648	(57,564)	29,076
Hackley Pub Lib	6114	35,328	12	35,340
Hamburg Twp	4709	77,940	171,984	249,924
Hamtramck City of	8205	103,152	7,072,776	7,176,744
Hamtramck HC	8250	107,760	52,200	159,960
Hancock City of	3107	68,040	134,628	202,668
Harbor Beach City of	3201	65,124	205,440	270,564
Harbor Springs Area Swg Auth	2406	25,836	13,200	39,036
Harbor Springs City of	2405	49,032	179,568	228,600
Harper Woods City of	8260	225,084	2,398,596	2,623,680
Harrison City of	1803	41,220	69,264	110,484
Harrison Dist Lib	1807	0	7,608	7,608
Hartland Deerfield Fire Auth	4716	25,716	(6,996)	18,720
Hastings City of	0801	154,896	605,436	761,892
Hazel Park City of	6336	369,420	2,851,344	3,230,232
Helen Newberry Joy Hosp	4805	41,376	842,040	883,416
Henika Dist Lib	0310	13,152	3,432	16,584
Herrick Dist Lib	7012	72,144	136,032	208,176
Hesperia Vlg of	6214	0	(4,080)	0
Hiawatha Bhvrl Hlth	1707	49,716	653,952	703,668
Hillsdale City of	3001	186,108	344,520	615,156
Hillsdale Co	3005	(53,940)	244,500	190,560
Hillsdale CRC	3004	77,952	269,844	347,796
Hillsdale HC	3007	12,216	372	12,588
Hlth Source of Saginaw	7311	345,672	1,113,420	1,470,192
Holland Area Cmnty Pool Auth	7014	32,616	17,136	49,752
Holland City of	7001	837,684	1,309,104	2,146,788
Holland Cmnty Hosp CLD	7006	0	8,016	8,016
Holly Vlg of	6317	190,416	546,972	802,140
Homer Vlg of	1304	38,868	16,308	55,176
Houghton City of	3109	187,740	85,704	273,444
Houghton Co	3102	278,496	762,672	1,041,168
Houghton CRC	3103	69,780	122,724	192,504
Houghton Lake Pub Lib	7203	21,864	8,268	30,132
Howard City Vlg of	5902	3,024	42,000	48,732
Howard Twp	1106	6,300	3,492	9,792
Howell Area Fire Auth	4714	46,068	11,760	57,828
Howell City of	4702	282,804	779,388	1,062,192
Howell-Carnegie Dist Lib	4707	46,560	22,440	69,000
Hudsonville City of	7004	0	198,120	198,120
Huntington Woods City of	6303	139,032	1,457,676	1,596,708
Hurley Med Ctr	2521	1,135,620	16,640,868	17,776,488
Huron Behavioral Health	3215	339,768	171,708	511,476
Huron Chtr Twp	8224	185,424	606,132	812,556
Huron Co	3204	1,260,468	2,048,040	3,308,508
Huron CRC	3202	183,528	700,980	884,508
Imlay City City of	4404	91,116	231,480	322,596
Independence Twp	6328	(10,464)	316,560	306,096
Indianfields Twp CLD	7905	0	0	0
Ingham Co	3303	4,672,728	12,711,864	17,490,828
Interurban Trans Auth	0308	27,120	24,192	51,312
Ionia City of	3403	354,780	901,164	1,255,944
Ionia Cmnty Lib	3412	18,216	18,120	36,336
Ionia Co	3408	173,412	154,908	328,320
Ionia CRC	3404	59,712	1,031,808	1,091,520
Ionia HC	3406	15,396	25,068	40,464
Iosco Co	3501	347,376	922,140	1,269,516
Iosco CRC	3502	27,336	333,756	361,092
Iron Co	3606	500,220	666,852	1,167,072
Iron Co HC	3611	15,780	22,344	38,124
Iron CRC	3602	122,844	598,428	721,272
Iron Mountain City of	2201	67,656	603,540	671,196
Iron Mountain-Kingsford Swg	2205	11,304	34,812	46,116
Iron River City of	3601	49,044	318,120	367,164
Ironwood City of	2706	163,500	703,716	869,448
Isabella Co	3703	321,528	1,249,212	1,592,520
Isabella Co Trans Comm	3709	22,884	30,924	53,808
Isabella CRC	3702	82,596	268,740	359,592
Ishpeming Area Joint Wwtr Trtm	5207	22,428	(6,480)	15,948



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Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Ishpeming City of	5204	140,916	664,800	805,716
Ishpeming Twp	5216	23,784	14,556	38,340
Ithaca City of	2904	14,712	226,512	241,224
Jackson Dist Lib	3802	132,396	36,036	168,432
Jackson Trans Auth	3805	114,516	158,280	272,796
Jordan Valley Dist Lib	1507	4,536	1,116	5,652
Jordan Valley EMS Auth	1509	13,512	8,652	22,164
Kalamazoo Chtr Twp of	3907	134,100	244,992	379,092
Kalamazoo Lake Swr & Wtr Auth	0306	31,308	21,456	52,764
Kalamazoo Pub Lib	3903	367,896	69,204	437,100
Kalkaska Co	4003	334,536	478,116	812,652
Kalkaska CRC	4002	24,960	908,244	938,436
Kalkaska Pub Trans Auth	4004	41,472	28,284	69,756
Kalkaska Vlg of	4001	42,960	232,572	275,532
Keego Harbor City of	6322	19,152	188,940	210,564
Kent CRC	4111	0	(13,872)	0
Keweenaw Co	4202	69,096	59,400	128,496
Keweenaw CRC	4201	81,660	254,196	335,856
Kinde Vlg of	3209	1,476	(2,028)	0
Kingsford City of	2202	60,792	251,076	311,868
L.M.A.S. Dist Hlth Dept	4803	88,920	195,408	284,328
Lac Vieux Desert Band	8402	20,064	3,444	23,508
Laingsburg City of	7608	15,324	9,804	25,128
Lake Co	4301	390,492	391,632	782,124
Lake CRC	4302	127,896	403,152	531,048
Lake Linden Vlg of	3105	19,368	51,204	72,660
Lake Odessa Vlg of	3402	11,028	5,832	16,860
Lake Orion Vlg of	6318	11,028	164,436	175,464
Lakeland Lib Coop	4106	20,592	4,068	24,660
Lakeshore Coordinating Council CLD	7007	0	27,864	27,864
Lakeview Cemetery	2407	5,724	444	6,168
L'Anse Vlg of	0705	114,900	273,864	388,764
Lansing Chtr Twp	3320	164,208	101,184	265,392
Lansing HC	3311	23,952	54,336	117,324
Lapeer City of	4401	520,320	610,464	1,130,784
Lapeer Co	4403	2,539,380	1,451,100	3,990,480
Lapeer CRC	4402	116,892	458,976	598,896
Lapeer Dist Lib	4410	26,076	126,576	152,652
Lathrup Vlg City of	6311	30,648	160,656	230,712
Laurium Vlg of	3104	20,196	85,020	105,216
Lawrence Vlg of	8004	0	4,548	7,428
Leelanau Co	4501	554,712	280,152	834,864
Leelanau CRC	4503	37,812	90,384	128,196
Leoni Twp	3804	12,456	179,232	191,688
Leslie City of	3313	27,216	52,392	79,608
Leslie Twp	3319	6,060	5,820	11,880
Lexington Vlg of	7708	16,080	101,712	120,852
Lima Twp	8112	14,244	(4,332)	9,912
Lincoln Park City of	8244	177,384	2,599,044	2,776,428
Litchfield City of	3006	26,724	51,624	78,348
Livingston Co	4703	2,083,896	2,858,724	4,942,620
Livingston Co CMH Auth	4712	274,188	278,796	552,984
Livingston CRC	4701	351,432	746,616	1,098,048
Looking Glass Rgnl Fire CLD	2311	0	804	804
Loutit Dist Lib	7013	60,960	36,372	97,332
Lowell City of	4104	157,248	432,312	589,560
Luce Co	4804	105,708	274,188	379,896
Luce Co Amb Svs	4806	29,040	6,540	35,580
Luce CRC	4801	74,664	495,336	570,000
Ludington City of	5302	228,264	517,476	745,740
Luna Pier City of	5802	4,476	258,432	262,908
Lyons Vlg of	3411	0	1,680	1,680
Mackinac Co	4901	114,408	878,916	993,324
Mackinac Co HC	4905	36	5,892	5,928
Mackinac CRC	4903	62,268	683,640	745,908
Mackinac Straits Hlth Sys	4902	968,664	579,888	1,548,552
Mackinaw City Vlg of	1606	19,344	19,644	38,988
Madison Chtr Twp of	4605	38,676	38,988	77,664
Madison Heights City of	6308	173,916	83,436	257,352
Manistee City of	5105	209,352	314,724	524,076



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Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Manistee Co	5101	574,416	1,145,280	1,850,172
Manistee CRC	5103	112,740	503,364	616,104
Manistee HC	5107	7,608	3,444	11,052
Manistique City of	7504	238,812	635,124	873,936
Manlius Twp	0311	2,712	11,244	13,956
Manton City of	8304	10,068	89,604	99,672
Marenisco Twp	2704	13,968	11,136	25,104
Marine City City of CLD	7704	0	0	0
Marion Vlg of	6704	5,412	11,388	18,072
Marlette City of	7405	46,668	53,256	99,924
Marquette Brd of Light & Power	5209	146,256	1,537,092	1,683,348
Marquette Chtr Twp	5215	94,380	56,172	150,552
Marquette City of	5201	683,148	2,599,776	3,282,924
Marquette Co	5202	752,712	3,485,412	4,238,124
Marquette Co Solid Waste Mgmt	5213	72,804	3,300	76,104
Marquette Co Trans Auth	5206	70,956	33,744	104,700
Marquette CRC	5211	176,208	1,313,508	1,489,716
Marshall Area Firefighters Amb	1313	24,672	(13,824)	10,848
Marshall City of	1306	174,036	1,209,912	1,383,948
Marshall Dist Lib	1309	0	49,356	49,356
Mason City of	3304	124,560	477,288	635,592
Mason Co	5301	864,636	1,782,384	2,647,020
Mason Co Dist Lib	5303	41,628	45,384	87,012
Mason CRC	5305	177,792	196,812	374,604
Mason-Oceana 911	6403	63,396	35,184	98,580
MBS Intl Arpt	0902	162,816	370,320	542,064
Meceola Central Dispatch	5405	45,228	43,800	89,028
Mecosta Co	5403	179,928	90,132	277,944
Mecosta Co General Hosp CLD	5404	0	91,500	91,500
Mecosta CRC	5401	91,908	122,916	214,824
Melvindale City of	8215	77,760	3,110,124	3,187,884
Melvindale HC	8220	15,672	25,560	41,232
Menominee City of	5501	162,972	238,092	401,064
Menominee Co	5502	330,648	842,316	1,185,948
Menominee CRC	5503	27,732	200,160	227,892
Meridian Chtr Twp	3315	590,256	1,985,532	2,575,788
MERS	2308	1,245,204	291,840	1,537,044
Metamora Twp	4409	31,128	7,752	38,880
Metro Police Auth of Genesee Co	2532	108,192	42,708	150,900
Mich Muni Risk Mgmt Auth	8237	35,508	(12,132)	23,376
Mich S Central Power Agcy	3002	57,036	(6,660)	50,376
Middleville Vlg of	0803	18,984	42,408	61,392
Midland City of	5601	772,560	4,797,636	5,570,196
Midland Co Central Disp Auth	5604	71,688	93,348	165,036
Midland CRC	5602	117,300	953,076	1,070,376
Mid-Mich Dist Hlth Dept	5901	211,212	184,248	395,460
Mid-Mich Lib League	8306	12,024	8,016	20,040
Mid-Peninsula Lib Coop CLD	3609	0	26,464	26,464
Milan City of	5801	59,244	880,680	939,924
Milan Lib	5806	10,380	12,876	23,256
Milford Vlg of	6313	137,256	513,060	650,316
Millington Vlg of	7904	7,764	(1,752)	6,012
Missaukee Co	5702	119,640	145,152	264,792
MOA Solid Waste Mgmt Auth	6002	33,264	9,720	42,984
Monroe HC	5808	68,652	101,712	170,364
Montague City of	6112	88,104	171,372	259,476
Montcalm Co	5907	290,220	462,756	752,976
Montcalm CRC	5905	164,868	683,436	848,304
Montmorency Co	6001	186,924	402,684	594,864
Montrose City of	2509	1,968	50,136	52,104
Mt. Morris Chtr Twp	2503	230,460	1,346,652	1,577,112
Mt. Pleasant City of	3701	390,432	853,740	1,244,172
Muir Vlg of	3405	0	5,724	5,724
Mundy Chtr Twp of	2517	30,720	13,416	44,136
Munising City of	0202	132,816	303,900	436,716
Muskegon Area Dist Lib	6117	98,820	27,828	126,648
Muskegon Chtr Twp	6108	110,856	538,896	649,752
Muskegon City of	6116	507,048	2,458,752	3,012,228
Muskegon Co	6103	1,304,856	2,660,352	3,965,208
Muskegon CRC	6101	370,440	841,392	1,216,752



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Appendix C: Annual Employer Contribution Requirements

<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Muskegon HC	6113	32,436	15,996	48,432
Muskegon Heights City of	6102	248,376	1,120,128	1,368,504
Muskegon Heights HC	6115	35,064	37,392	72,456
N Houghton Co Wtr&Swg Auth	3106	11,676	12,816	24,492
N Muskegon City of	6104	32,568	159,216	191,784
Nashville Vlg of	0807	28,320	2,472	30,792
Negaunee City of	5203	150,528	470,952	621,480
Negaunee Twp	5217	2,892	4,080	6,972
Network180	4109	206,292	342,576	548,868
New Baltimore City of	5016	176,760	295,896	480,036
New Buffalo City of	1113	42,420	13,872	56,292
New Buffalo Twp	1121	14,988	(1,488)	13,500
Newaygo CMH	6207	0	(35,028)	0
Newaygo Co	6201	42,444	1,440,132	1,482,576
Newaygo CRC	6212	158,772	167,580	327,420
Newaygo MCF	6204	122,904	64,980	189,792
Newaygo Soil & Wtr Cnsvrn Dist	6205	5,376	516	5,892
Newberry Vlg of	4802	56,124	143,220	199,344
Niles City of	1115	338,844	585,588	924,432
Niles Dist Lib	1105	18,444	13,920	32,364
Northern Lakes CMH Auth	2808	528	1,100,760	1,101,288
Northfield Twp	8117	58,260	8,964	67,224
Northpointe Bhvrl Hlth Sys	2207	190,080	178,500	375,660
Northville Chtr Twp	8230	948,948	(79,236)	869,712
Northville City of	8208	44,700	1,153,092	1,197,792
Northville Dist Lib	8229	122,436	58,128	180,564
Norton Shores City of	6106	528,480	1,802,892	2,331,372
Norway City of	2204	120,312	988,800	1,109,112
Nottawaseppi Huron Band	8403	111,048	8,364	119,412
Novi City of	6320	802,056	3,437,952	4,252,968
NW Mich Cmnty Hlth Agcy	1502	23,208	519,444	542,652
NW Rgnl Arpt Comm	2805	117,588	69,444	187,032
Oceana Co	6402	370,860	1,146,204	1,594,572
Oceola Twp	4717	26,700	7,752	34,452
Ogemaw Co	6502	169,572	1,305,480	1,475,052
Ogemaw Co EMS Auth	6508	155,244	72,876	228,120
Ogemaw CRC	6503	91,440	345,972	437,412
Olive Twp	7009	2,292	11,460	13,752
Onaway City of	7105	3,228	6,024	9,396
Ontonagon Co	6602	155,604	254,448	413,004
Ontonagon Co Economic Dev Corp	6605	0	10,668	10,668
Ontonagon CRC	6604	293,616	1,027,920	1,321,536
Ontonagon Vlg of	6603	43,368	466,932	510,300
Orchard Lake City of	6312	19,992	470,268	490,260
Oronoko Chtr Twp	1114	30,792	69,876	100,668
Osceola Co	6701	388,788	284,160	672,948
Osceola CRC	6703	84,636	265,020	349,656
Oscoda Chtr Twp	3503	48,156	135,024	183,180
Oscoda Co	6801	215,400	254,160	469,560
Oscoda Co Lib	6803	3,228	(5,604)	0
Oscoda Wurtsmith Arpt Auth I	6802	13,440	10,212	23,652
Otisville Vlg of	2506	15,924	29,964	45,888
Otsego Co	6902	366,336	635,316	1,001,652
Otsego CRC	6901	127,356	436,800	564,156
Ottawa Co	7003	2,783,460	6,242,616	9,026,076
Ottawa Co Central Disp Auth	7008	11,304	108,036	120,636
Ottawa CRC	7002	285,804	1,671,216	1,958,988
Otter Lake Vlg of	4408	0	4,176	4,176
Owosso City of	7607	20,448	168,204	188,652
Oxford Fire Department	6327	100,464	184,500	284,964
Oxford Vlg of	6326	39,132	97,224	136,356
Parchment City of	3901	6,300	87,816	94,116
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	52,176	3,690,312	3,742,488
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	12,792	35,352	48,144
Paw Paw Vlg of	8002	105,096	250,116	355,212
Pellston Vlg of	2404	5,028	8,772	13,800
Pennfield Chtr Twp	1312	53,544	72,480	126,024
Pentwater Vlg of	6401	39,924	43,368	83,292
Perrinton Vlg of	2909	5,196	1,224	6,420
Petersburg City of	5807	17,928	(2,844)	15,084



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<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Petoskey City of	2402	370,200	394,068	764,268
Pewamo Vlg of	3407	6,252	4,752	11,004
Pigeon Vlg of	3203	16,632	29,328	45,960
Pinckney Vlg of	4706	63,120	58,224	121,344
Pinconning City of	0904	7,848	77,640	85,488
Pittsfield Chtr Twp	8110	677,856	869,136	1,591,836
Pleasant Ridge City of	6301	65,904	244,572	310,476
Plymouth Chtr Twp of	8238	190,128	993,792	1,188,204
Plymouth City of	8202	0	1,034,688	1,083,336
Plymouth Dist Lib	8221	102,660	87,288	189,948
Pokagon Band of Potawatomi	8401	2,288,316	114,732	2,403,048
Port Austin Area Swr&Wtr Auth	3210	0	(8,964)	0
Port Austin Vlg of	3208	4,668	14,844	19,512
Port Huron Chtr Twp	7711	71,820	92,820	164,640
Port Huron City of	7702	963,924	4,969,212	5,959,464
Port Huron HC	7712	119,004	216,144	335,640
Port Sanilac Vlg of	7403	14,268	43,200	57,468
Port Sheldon Twp	7018	24,384	(2,496)	21,888
Portland City of	3401	158,112	394,380	552,492
Pottersville City of	2313	14,424	22,572	36,996
Presque Isle Co	7104	196,056	370,656	566,712
Presque Isle CRC	7101	78,564	361,080	439,644
PRIDE Youth Programs CLD	6210	0	26,196	26,196
Ravenna Vlg of	6111	4,320	1,128	5,448
Reading City of	3003	9,144	4,884	14,028
Redford Chtr Twp of	8209	499,260	1,714,824	2,214,084
Redford Twp Dist Lib	8228	42,192	41,856	84,048
Reed City City of	6702	103,584	198,060	301,644
Richfield Twp (Genesee Co)	2514	36,396	172,620	209,016
Richfield Twp (Roscommon Co)	7202	39,276	80,400	119,676
Richland Twp	7310	34,224	187,512	221,736
Richmond City of	5012	(8,748)	66,276	57,528
Rochester City of	6307	195,936	724,296	920,232
Rockford City of	4103	170,604	262,992	433,596
Rockwood City of	5810	62,496	15,684	82,848
Rockwood HC	8267	2,184	120	2,304
Rogers City City of	7102	47,244	443,220	490,464
Romeo Dist Lib	5006	14,472	144,744	159,216
Romeo Vlg of	5005	120,576	264,468	385,044
Romulus City of	8225	310,104	2,616,060	2,926,164
Roosevelt Park City of	6107	60,888	275,904	336,792
Roscommon Co	7201	284,328	744,756	1,029,084
Roscommon Co Trans Auth	7205	61,368	48,912	110,280
Rose City City of	6504	13,092	9,624	22,716
Rose Twp	6506	6,060	(25,884)	0
Royal Oak Chtr Twp of	6306	12,744	(184,428)	12,744
Saginaw Chtr Twp	7314	85,092	84,348	186,480
Saginaw City of	7301	1,309,728	14,938,776	16,299,312
Saginaw Co	7303	68,784	4,150,404	4,219,188
Saginaw Co 911 Com Ctr	7316	4,968	1,056,444	1,061,412
Saginaw Co CMH	7318	22,248	594,324	617,268
Saginaw CRC	7304	248,784	855,252	1,104,036
Saginaw HC	7321	15,108	170,868	185,976
Saginaw Pub Lib of	7317	58,272	(97,380)	0
Saginaw Trans Sys Auth	7319	107,916	0	107,916
Saginaw-Midland Muni Wtr Corp	7305	10,764	345,600	356,364
Saline City of	8105	255,216	1,143,108	1,398,324
Sandusky City of	7402	63,588	166,548	230,136
Sandusky Dist Lib	7404	2,940	96	3,036
Sanilac CRC	7410	128,448	89,184	217,632
Saranac HC	3413	6,756	20,256	27,012
Saugatuck City of	0307	42,204	17,268	59,472
Saugatuck Twp	0305	12,696	32,076	45,216
Saugatuck Twp Fire Dist	0313	27,516	8,664	36,180
Sault Ste. Marie City of	1701	179,124	775,380	954,504
Sault Ste. Marie HC	4906	28,644	8,448	37,092
Sault Ste. Marie Tribe of Chippewa Indians	8404	154,500	(1,236)	153,264
SCCMUA	1905	30,948	62,712	93,660
Schoolcraft Co	7503	417,156	994,272	1,430,964
Schoolcraft Co Trans Auth	7506	34,968	55,692	90,660



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<u>Municipality Name</u>	<u>Number</u>	<u>Normal Cost</u>	<u>Amortization Payment^{1,2}</u>	<u>Total Employer Contribution²</u>
Schoolcraft CRC	7501	121,716	617,772	739,488
Schoolcraft Memorial Hosp	7505	54,828	1,266,000	1,320,828
Scio Twp	8116	89,640	52,428	142,068
Scottville City of	5308	16,668	8,472	25,140
SE Oakland Co Rsrc Rec Auth	6310	72,120	149,292	221,412
SE Oakland Co Wtr Auth	6309	72,336	34,128	106,464
Sebewaing Vlg of	3205	59,148	(73,716)	109,068
SEMCOG	8210	516,264	412,668	928,932
Shepherd Vlg of	3704	14,700	1,044	15,744
Shiawassee Co	7602	1,434,660	3,524,520	4,966,272
Shiawassee Council on Aging	7605	3,672	17,628	21,300
Shiawassee CRC	7601	86,700	330,912	417,756
Shiawassee Dist Lib	7606	17,076	(1,596)	15,480
Shiawassee Hlth & Wellness	7609	546,780	213,672	760,452
Sims Whitney Util Auth	0606	11,736	9,276	21,012
SMART	8216	2,816,880	5,629,056	8,445,936
South Haven Area ESA	8005	57,696	246,336	305,520
South Haven City of	8001	409,104	485,436	921,564
South Lyon City of	6315	222,996	410,700	633,696
Southgate City of	8262	62,004	870,720	932,724
Sparta Vlg of	4107	51,576	103,260	154,836
Spring Lake Dist Lib	7016	25,164	(3,420)	21,744
Spring Lake Vlg of	7015	11,160	119,640	138,372
Springfield City of	1303	41,700	253,308	295,008
St Charles Vlg of	7308	49,644	151,560	201,204
St Clair City of	7703	125,364	843,228	968,592
St Clair HC	7715	0	45,948	45,948
St Clair Shores HC	5007	33,216	92,772	125,988
St Ignace City of	4904	145,092	412,728	557,820
St Johns City of	1902	86,868	950,460	1,037,328
St Joseph Co	7803	517,008	320,544	847,224
St Joseph Twp	1122	56,232	0	56,232
St Louis City of	2902	13,644	466,296	479,940
St Louis HC	2908	11,100	11,052	22,152
Stambaugh Twp	3615	1,920	5,040	6,960
Standish City of	0601	3,840	290,724	294,564
Stanton City of CLD	5903	0	0	0
Stephenson City of	5504	11,928	23,052	34,980
Sterling Vlg of	0605	6,156	(12,564)	0
Stockbridge Vlg of	3316	10,248	26,436	36,684
Sturgis HC	7805	11,844	(96)	11,748
Summit Twp	3803	208,956	469,992	678,948
Sumpter Twp	8226	125,016	169,212	294,228
Superior Chtr Twp	8109	131,424	192,108	323,532
Superior Dist Lib	1702	23,040	(49,944)	0
Superiorland Lib Coop	5208	0	26,244	26,244
Suttons Bay Bingham Fire Auth	4506	43,332	46,704	90,036
SW Mich Comm Amb Svcs	1119	11,556	32,112	43,668
SW Shiawassee ESA	7611	50,028	13,320	63,348
Swan Creek Twp	7309	8,724	14,544	23,268
Swartz Creek City of	2504	3,036	36,228	39,264
Sylvan Lake City of	6314	22,392	9,648	32,040
Tawas Police Auth	3504	36	48,432	48,468
Taylor HC	8231	12,936	2,616	15,552
The Lib Network	8218	86,448	203,520	289,968
Three Rivers City of	7801	238,728	447,864	686,592
Tittabawassee Twp	7322	63,516	7,392	70,908
Traverse Area Dist Lib	2807	1,404	81,420	82,824
Traverse City City of	2801	543,516	1,139,748	1,683,264
Traverse City Light & Power	2811	324,852	1,996,908	2,321,760
Trenton City of	8203	51,228	3,980,304	4,031,532
Tri-County Aging Consortium	3307	347,772	91,788	439,560
Trio Council on Aging Inc CLD	6507	0	7,104	7,104
Tuscarora Twp	1604	68,388	62,064	130,452
Tuscola Co	7902	322,188	231,288	553,476
Tuscola Co CMH	7907	268,632	270,036	538,668
Tuscola Co Hlth Dpt	7901	87,912	93,180	181,092
Tuscola Co MCF	7906	234,468	110,652	345,120
Tuscola CRC	7908	59,316	116,556	175,872
Twin City Pub Safety Auth CLD	3610	0	324	324



Municipal Employees' Retirement System of Michigan - As of December 31, 2018
Results by Municipality
Appendix C: Annual Employer Contribution Requirements

Municipality Name	Number	Normal Cost	Amortization Payment ^{1,2}	Total Employer Contribution ²
Ubyl Vlg of	3212	2,916	21,816	24,732
Utica City of	5008	56,604	173,052	229,656
Van Buren Co	8006	589,380	961,968	1,551,348
Van Buren Dist Lib	8007	25,116	33,060	58,176
Van Buren Twp	8236	171,060	393,588	564,648
Vassar City of	7903	22,416	304,668	327,084
Vevay Twp	3318	3,960	26,592	30,552
Vicksburg Dist Lib	3904	0	8,052	8,052
Vicksburg Vlg of	3902	21,012	62,892	83,904
Vienna Chtr Twp of	2522	7,704	58,392	66,096
W Iron Co Swr Auth	3612	16,716	50,508	67,224
W Mich CMH Sys	5304	8,304	140,940	149,244
W Mich Shoreline Rgnl Dev Comm	6110	28,044	(65,808)	0
W UP Dist Hlth Dept	3101	40,128	720,588	760,716
Wakefield City of	2701	34,704	172,320	207,024
Walker City of	4112	164,940	1,798,932	1,963,872
Walled Lake City of	6324	84,000	821,988	905,988
Washtenaw Co	8113	2,119,680	2,404,416	4,529,592
Washtenaw CRC	8102	331,992	2,474,196	2,810,652
Wayland City of	0304	193,548	196,476	390,024
Wayne City of	8242	427,668	5,674,680	6,136,812
Wayne HC	8252	23,508	18,228	41,736
Webberville Vlg of	3314	8,676	0	8,676
West Branch City of	6505	42,756	177,312	220,068
West Branch Dist Lib	6509	4,812	(72)	4,740
Westland City of	8211	653,904	7,039,884	7,832,580
Westphalia Vlg of	1907	5,088	15,540	20,628
Wexford Co	8302	363,492	750,072	1,113,564
Wexford CRC	8303	109,680	89,880	199,560
White Cloud City of	6206	34,512	30,624	65,136
White Cloud Cmnty Lib	6208	11,184	3,900	15,084
White Cloud/Sherman Util	6211	13,140	14,220	27,360
White Lake Chtr Twp	6325	361,596	682,644	1,044,240
White Pigeon Vlg of	7804	7,476	2,004	9,480
White Pine Dist Lib	5904	564	13,572	14,136
Whitehall City of	6105	83,628	138,252	221,880
Willard Pub Lib	1308	121,872	50,544	172,416
Williamston City of	3310	56,784	123,372	180,156
Wixom City of	6316	202,584	95,352	297,936
Wolverine Lake Vlg of	6329	(8,064)	110,676	102,612
WUPPDR	3108	18,180	19,848	38,028
Ypsilanti City of	8101	156,456	(522,312)	64,464
Ypsilanti Cmnty Util Auth	8106	389,472	1,679,964	2,069,436
Ypsilanti HC	8115	11,628	12,708	24,336
Ypsilanti Twp of	8104	199,656	463,896	663,552
Totals - Active Groups	729	128,445,900	420,974,472	553,281,396
Totals - Closed Groups	16	0	283,012	283,012
Totals- MERS	745	128,445,900	421,257,484	553,564,408

¹ Contribution requirements for Open Employers are determined at the division level. For purposes of this display individual division results are summed to the employer level. Individual divisions may have an amortization credit that is larger than the division's normal cost, which results in a total contribution requirement of zero for the division. An additional outcome is that the displayed normal cost and amortization payment may not add across.

² Closed Employers follow a separate funding policy, determined at the employer level. Amortization Payments and Total Employer Contributions are only shown for Closed Employers with a non-zero requirement.



MERS 12/31/2018 Valuation – Results By Municipality

Appendix D: Risk Measures

Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
21st Dist Ct	8243	4.6	8.0	1.3	9.3	-3.2%
23rd Jud Dist Ct	8223	7.8	12.0	0.8	11.8	-5.2%
26th Jud Cir Ct	0403	5.3	7.0	0.7	11.7	-5.6%
34th Dist Ct	8235	3.2	5.9	2.6	13.1	0.1%
35th Dist Ct	8234	3.4	6.9	0.9	5.2	-9.0%
41 B Dist Ct	5014	4.5	6.8	0.9	12.2	-3.5%
Addison Fire Dept	4607	3.5	4.2	N/A	N/A	3.3%
Adrian City of	4601	6.6	10.9	0.6	8.5	-6.0%
Aitkin Memorial Dist Lib	7407	N/A	N/A	N/A	N/A	0.0%
Albion City of	1301	13.7	16.3	0.2	10.9	-7.1%
Alcona Co	0101	5.5	9.0	0.7	11.0	-2.5%
Alger Co	0203	5.6	8.9	0.9	11.6	-2.3%
Alger CRC	0201	4.3	7.4	0.7	8.6	-3.6%
Algonac City of	7707	14.4	19.8	0.3	12.2	-2.2%
Allegan City of	0309	6.1	9.2	1.1	21.2	0.0%
Allegan Co	0302	15.5	18.1	0.2	13.6	-5.8%
Allegan CRC	0301	5.6	9.2	0.7	7.6	7.8%
Alma City of	2901	5.3	7.6	0.9	10.8	-4.4%
Almont Vlg of	4407	2.7	3.7	2.6	15.7	-1.1%
Alpena Co	0401	3.6	6.3	0.7	8.9	-2.2%
Alpena CRC	0402	12.5	18.8	0.3	9.3	-1.7%
Alpena HC	0406	6.4	6.8	3.0	82.3	0.4%
Alpena Sr Citizens Ctr	0404	N/A	N/A	0.0	0.8	8.5%
Alpha Vlg of	3614	7.4	3.7	N/A	N/A	0.0%
Antrim Co	0502	2.6	3.8	1.4	16.0	0.1%
Antrim CRC	0501	4.5	9.4	0.9	8.7	1.6%
Arenac Co	0603	7.4	10.8	0.4	12.4	0.0%
Arenac CRC	0604	3.3	9.0	0.4	4.8	3.3%
Armada Twp	5022	0.2	0.2	N/A	N/A	172.3%
Ash Twp	5804	2.2	4.3	2.5	9.2	5.6%
Au Gres City of	0602	29.0	45.7	0.1	6.6	-6.8%
Auburn City of	0905	23.1	50.6	0.3	4.3	-12.6%
Bad Axe Area Dist Lib	3214	3.1	3.4	N/A	N/A	12.5%
Bad Axe City of	3211	4.5	8.3	0.9	8.5	0.3%
Bancroft Vlg of	7610	N/A	N/A	0.0	3.4	-10.0%
Bangor City of	8003	5.8	4.8	0.6	14.1	-6.4%
Baraga Co	0702	3.4	5.4	0.9	11.6	-2.0%
Baraga Co Memorial Hosp	0703	7.9	11.0	0.3	11.0	-1.1%
Baraga CRC	0701	4.3	8.9	0.5	6.0	-0.1%
Baraga Vlg of	0704	2.8	7.7	0.9	5.1	-5.6%
Baroda Lake Twp Police Dept	1109	1.2	1.6	5.0	31.4	7.5%
Barry Co	0802	3.2	4.3	1.8	15.8	-0.4%
Barry Co CMH Auth	0804	2.6	3.3	7.4	24.5	2.5%
Barry Eaton Dist Hlth Dept	2303	5.7	8.4	0.6	9.9	-4.6%
Barton Hills Vlg of	8107	5.2	6.9	2.0	19.1	-1.9%
Bates Twp	3616	N/A	N/A	0.0	4.0	-11.8%
Bath Chtr Twp	1909	3.9	5.5	2.1	18.2	0.7%
Battle Creek City of	1302	4.1	7.8	0.8	7.6	-4.8%
Bay Area Trans Auth	2810	1.6	1.8	2.1	18.8	3.7%
Bay City City of	0901	32.4	45.4	0.1	8.4	-0.3%
Bay City HC	0906	48.9	56.4	0.1	12.7	-5.3%
Bay Metro Trans Auth	0907	2.9	5.3	1.3	12.6	1.3%
Beecher Metro Dist Swg&Wtr	2501	13.0	20.0	0.4	11.4	-1.8%
Belding City of	3410	3.5	7.6	1.0	6.3	-4.0%
Belleville City of	8213	5.7	12.0	0.7	8.2	-3.5%
Benton Harbor City of	1120	5.5	15.6	0.5	4.3	-6.4%
Benzie Co	1003	3.0	4.8	1.1	12.0	0.1%
Benzie Co Comm on Aging	1006	N/A	N/A	0.0	8.4	-10.3%
Benzie Co MCF (The Maples)	1004	1.7	2.3	1.8	12.1	-0.9%
Benzie CRC	1001	2.4	6.5	0.6	4.4	-3.1%
Benzie Shores Dist Lib	1005	N/A	N/A	0.0	19.9	-3.3%
Benzie Trans Auth	1007	2.4	2.1	1.7	42.0	5.0%
Benzie/Leelanau Dist Hlth Dept	4504	6.3	9.8	0.7	22.2	1.3%
Berkley City of	6304	5.4	11.1	0.5	5.9	-10.4%
Berrien Springs Vlg of	1102	3.1	4.0	0.9	11.6	-5.2%
Bessemer City of	2702	3.0	4.8	0.9	12.7	-1.4%
Beverly Hills Vlg of	6321	13.9	18.0	0.3	11.7	-5.4%
Big Rapids City of	5402	17.0	28.6	0.2	8.2	-5.0%
Big Rapids HC	5406	9.7	13.2	0.4	15.4	-1.8%
Bingham Farms Vlg of	6332	1.9	2.4	2.0	44.1	2.0%
Birch Run Vlg of	7315	2.9	3.4	3.3	45.1	3.7%
Bishop Intl Arpt Auth	2507	5.1	7.0	1.8	27.5	1.7%



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Blackman Chtr Twp	3806	2.8	5.0	2.5	14.4	3.1%
Blissfield Vlg of	4606	3.1	3.8	2.2	16.7	-1.9%
Bloomfield Hills City of	6302	14.6	19.5	0.5	11.7	-5.8%
Blue Water Area Trans Comm	7709	2.9	4.0	2.6	29.4	3.0%
Boyne City City of	1506	10.9	14.4	0.2	10.6	-2.8%
Boyne City HC	1508	4.1	7.2	1.0	8.4	-1.0%
Branch Co	1205	4.8	5.3	1.9	25.4	36.8%
Branch-Hillsdale-St Joseph Comm Hlth Agcy	1202	7.1	9.1	0.7	13.9	-3.9%
Brandon Chtr Twp of	6333	3.9	5.5	1.4	14.8	-1.9%
BreckenridgeVlg of	2906	2.1	6.1	1.0	4.3	-5.8%
Bridgeport Chtr Twp	7307	3.4	5.4	1.0	11.2	-0.6%
Bridgman City of	1110	1.5	2.3	2.4	13.4	-0.7%
Brighton Area Fire Auth	4715	8.0	8.6	1.0	24.0	-2.1%
Brighton Chtr Twp of	4711	3.7	4.4	0.9	17.7	3.7%
Brighton City of	4704	3.7	6.6	1.2	12.0	-1.0%
Britton Vlg of	4604	6.5	4.2	N/A	N/A	1.6%
Bronson City of	1204	2.6	4.0	2.0	20.5	15.4%
Brooklyn Vlg of	3801	2.4	3.9	1.6	7.8	-4.2%
Brownstown Chtr Twp of	8247	4.9	7.2	4.3	29.3	2.0%
Buchanan City of	1101	5.1	5.3	0.8	17.3	-2.5%
Buchanan Dist Lib	1108	2.8	2.6	4.0	98.6	4.8%
Buena Vista Chtr Twp	7312	5.1	8.4	1.0	9.2	-4.9%
Burton City of	2508	5.6	12.6	0.9	7.0	-0.3%
Butman Twp CLD	2604	N/A	N/A	0.0	8.1	-10.6%
Cadillac City of	8301	4.2	5.9	0.8	11.8	-4.5%
Cadillac/Wexford Trans Auth	8305	2.4	3.7	1.3	10.9	-2.2%
Calhoun Co	1311	2.9	4.0	1.9	13.6	24.3%
Calhoun Co Conso Dispatch Auth	1316	9.3	10.7	1.1	22.4	-0.4%
Canton Chtr Twp of	8233	2.9	4.9	2.4	10.7	-1.0%
Canton Pub Lib	8232	4.8	5.3	1.2	14.5	-3.1%
Capac Vlg of	7705	5.9	20.5	0.1	3.5	8.3%
Capital Area Dist Lib	3317	2.7	3.5	2.4	28.3	2.7%
Capital Region Arprt Auth	3305	5.9	8.1	1.0	12.0	-3.4%
Carleton Vlg of	5805	4.2	6.2	1.2	15.2	-2.7%
Carrollton Twp	7320	3.9	5.7	2.2	19.0	-0.8%
Cascade Chtr Twp	4110	4.7	6.5	1.0	11.2	-3.3%
Caseville City of	3207	3.8	5.7	1.5	15.5	0.0%
Caspian City of	3608	5.4	11.3	0.3	6.5	-3.8%
Cass Co	1402	2.9	4.4	1.5	13.0	-0.3%
Cass Co MCF	1403	1.2	1.5	2.2	12.8	-1.1%
Cass Dist Lib	1404	2.3	2.7	1.7	26.3	-0.2%
Cedar Springs City of	4105	6.5	8.7	0.5	9.8	-5.2%
Center Line City of	5001	5.6	12.7	0.3	5.2	-4.0%
Central Lake Vlg of	0504	1.1	1.4	N/A	N/A	8.2%
Central Mich Dist Hlth Dept	3705	10.0	16.0	0.3	9.3	-3.3%
Charlevoix City of	1505	2.9	4.8	1.2	8.4	-0.8%
Charlevoix Co	1503	3.4	4.9	1.3	14.2	-1.7%
Charlevoix CRC	1501	4.1	5.7	0.8	10.7	4.0%
Charlotte City of	2301	4.5	8.8	0.6	7.4	-5.7%
Charlotte Dist Lib	2309	2.3	4.8	1.0	6.0	-3.2%
Cheboygan City of	1602	4.9	8.7	0.7	9.0	-4.8%
Cheboygan Co	1603	3.5	5.3	1.3	13.1	-1.9%
Cheboygan CRC	1601	7.0	16.4	0.5	6.7	-1.5%
Chelsea Area Fire Auth	8118	1.5	1.7	10.0	57.1	7.0%
Chelsea City of	8103	45.6	63.2	0.1	8.9	-1.6%
Chesaning Vlg of	7313	1.5	7.0	0.8	3.1	8.3%
Chesterfield Twp	5009	3.4	5.0	1.8	16.3	-0.8%
Chesterfield Twp Lib	5010	4.6	4.4	2.0	19.6	-0.5%
Chikaming Twp	1112	1.7	2.7	2.8	9.1	-3.1%
Chippewa Co	1703	3.7	5.9	0.9	10.6	-3.2%
Chippewa Co - Emplmt & Trng CLD	1710	N/A	N/A	0.0	13.1	-6.8%
Chippewa CRC	1704	2.8	6.2	0.7	6.7	-3.8%
Chippewa River Dist Lib	3707	3.5	4.8	2.0	15.9	-1.2%
Chocolay Chtr Twp of	5218	2.5	2.7	1.8	24.8	1.2%
Clare City of	1804	3.8	6.9	1.2	9.4	-3.6%
Clare Co	1802	2.7	4.2	1.6	12.6	-1.4%
Clare Co Trans Auth	1806	1.3	2.0	3.0	23.6	5.8%
Clare CRC	1801	4.6	7.2	0.8	9.4	-0.6%
Clawson City of	6305	30.9	33.4	0.2	12.0	120.7%
Clay Twp	7706	3.1	5.3	1.2	11.7	-0.8%
Clearwater Twp	4005	2.5	3.9	1.0	7.5	-5.6%
Clinton Co	1903	9.3	10.0	0.6	19.1	-1.7%



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Clinton CRC	1901	5.7	9.4	0.8	10.0	0.6%
Clinton Twp	5002	4.8	8.5	0.8	8.5	-0.5%
Clinton Vlg of	4602	5.6	6.3	1.0	16.6	-0.8%
Clinton-Eaton-Ingham CMH	3308	3.1	4.7	1.7	12.4	-1.5%
Clio City of	2523	1.9	2.8	2.4	13.0	-0.7%
CMH for Central Mich	3708	3.1	4.1	1.5	14.8	0.0%
Coldwater Brd of Pub Util	1203	8.7	15.9	0.3	7.8	-2.9%
Coldwater City of	1201	14.7	21.7	0.2	8.5	-5.6%
Coleman City of	5603	4.3	7.0	1.1	10.7	-2.9%
Coloma Chtr Twp	1107	2.6	4.0	4.0	14.5	6.4%
Coloma City of	1118	3.4	4.1	6.0	624.6	3.5%
Columbiaville Vlg of	4406	2.5	3.9	0.8	26.3	1.2%
Constantine Vlg of	7806	1.1	0.7	N/A	N/A	8.3%
Coopersville Area Dist Lib	7011	6.1	10.6	0.3	8.7	13.3%
Coopersville City of	7005	2.5	3.6	0.9	10.0	-3.4%
Corunna City of	7604	6.2	9.2	0.8	10.7	2.3%
Corwith Twp	6904	1.8	2.1	N/A	N/A	5.6%
Covert Twp	8010	1.6	2.5	7.0	22.4	3.1%
Crawford Co	2001	10.9	11.8	0.4	16.4	-4.3%
Crawford Co Trans Auth	2004	6.4	9.4	0.9	13.1	-0.1%
Crawford CRC	2002	2.5	6.6	1.0	6.8	3.8%
Croswell City of	7401	3.8	7.2	1.1	9.6	0.2%
Crystal Falls City of	3603	5.8	10.5	0.6	9.0	-3.7%
Crystal Falls Cmnty Hosp CLD	3618	N/A	N/A	0.0	10.5	-5.7%
Ctrl Dispatch of Muskegon Co	6109	3.1	4.1	1.3	11.9	-2.9%
Ctrl Wayne Co Sanitation Auth	8214	N/A	N/A	0.0	6.1	-7.4%
Davison Richfield Sr CCA	2525	3.3	6.5	1.0	5.5	-5.7%
Davison Twp	2519	4.9	7.1	2.6	21.4	0.6%
DavisonCity of	2516	6.1	13.6	0.9	8.4	-1.7%
Dearborn City of	8251	1.1	1.3	N/A	5,712.4	18.4%
Deerfield Vlg of	4603	5.7	9.1	0.8	7.6	-7.6%
Delta Area Transit Auth	2107	1.0	1.4	N/A	N/A	19.6%
Delta Chtr Twp	2306	4.5	6.4	2.1	16.6	-1.1%
Delta Co	2102	14.3	21.9	0.3	11.0	-0.6%
Delta CRC	2105	4.3	8.2	0.7	7.9	3.5%
Delta-Menominee Dist Hlth Dept	2103	5.9	7.4	1.1	19.2	-1.2%
Detour Vlg of	1706	1.0	2.7	1.6	7.2	3.7%
Detroit HC	8241	3.4	3.8	2.4	27.9	0.8%
DeWitt Chtr Twp	1910	3.9	6.2	1.9	14.7	0.3%
DeWitt City of	1908	3.0	5.9	0.9	8.7	3.0%
Dexter Area Fire Dept	8219	1.9	2.9	2.7	19.8	4.9%
Dexter City of	8217	6.1	7.6	0.8	17.5	-0.1%
Dexter Twp	8111	3.4	4.7	1.0	13.1	1.8%
Dickinson Co	2206	5.7	10.6	0.8	9.7	-2.5%
Dickinson CRC	2203	5.4	12.4	0.3	5.9	-4.0%
Dickinson-Iron Dist Hlth Dept	3605	6.7	11.3	0.3	9.1	-2.2%
DimondaleVlg of	2304	8.3	12.1	0.3	11.5	-4.5%
Dist Hlth Dept # 2	6501	16.7	23.1	0.2	9.6	-1.8%
Dist Hlth Dept # 4	7103	7.0	13.0	0.6	8.3	-5.9%
Dist Hlth Dept #10	5104	2.9	5.1	1.0	7.3	-4.5%
Douglas City of Vlg of	0303	4.4	4.9	0.9	23.8	-0.3%
Dowagiac City of	1401	4.6	9.8	0.6	7.8	-3.1%
Dowagiac Dist Lib	1406	1.0	1.2	1.5	16.0	6.3%
Dowagiac HC	1405	1.3	1.4	2.5	12.7	-4.3%
Drummond Island Twp	1708	2.4	2.9	2.0	90.3	4.1%
Dryden Vlg of	4405	6.0	10.9	0.3	6.9	-8.6%
Dundee Vlg of	5803	5.0	9.4	0.6	7.0	-3.2%
Durand City of	7603	4.2	7.0	1.0	10.0	-4.0%
E UP Reg Planning & Dev Comm	1709	1.8	1.3	N/A	81.0	7.5%
E UP Trans Auth	1705	4.4	11.0	0.7	6.5	-3.6%
East China Chtr Twp	7701	5.8	10.4	0.8	8.0	-5.4%
East Grand RapidsCity of	4101	26.3	58.0	0.1	5.2	-4.3%
East Jordan City of	1504	3.8	6.3	0.7	8.8	-4.6%
East Lansing City of	3301	6.0	12.3	0.7	7.2	-2.4%
Eastpointe City of	5019	5.7	12.0	0.5	6.5	2.6%
Eastpointe HC	5011	2.5	3.4	3.0	47.5	3.1%
Eaton Co	2302	5.2	9.4	1.1	9.9	-3.0%
Eaton Co Hlth & Rehab Svcs	2305	1.2	1.5	4.4	18.4	1.3%
Eaton Rapids City of	2307	4.4	8.0	0.9	8.5	-4.6%
Eau Claire Vlg of	1104	3.7	10.7	0.5	4.5	-4.9%
Ecorse City of	8206	8.7	22.8	0.2	4.3	-1.6%
Elk Rapids Vlg of	0506	1.8	2.7	3.5	14.7	2.6%



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Results by Municipality

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Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Elkton Vlg of	3206	13.7	14.9	0.2	11.2	0.7%
Elsie Vlg of CLD	1906	N/A	N/A	0.0	15.2	-5.9%
Emmet CRC	2401	16.8	27.0	0.2	9.6	-1.4%
Emmett Chtr Twp	1310	3.1	4.5	1.7	16.0	-1.0%
Erie Twp of	5812	0.8	0.7	N/A	N/A	13.8%
Escanaba City of	2101	13.2	22.6	0.3	8.5	7.0%
Essexville City of	0903	6.3	10.1	0.6	8.3	-5.4%
Evert City of	6705	2.8	4.1	1.3	11.9	-3.1%
Evert Local Dev Finance Auth	6706	6.6	15.5	0.5	6.1	-5.2%
Farmington City of	6343	6.5	9.2	0.7	10.9	-4.8%
Farmington Cmnty Lib	6319	19.0	22.5	0.2	10.9	-7.8%
Farwell Vlg of	1805	1.8	2.9	2.5	8.2	-4.7%
Fenton City of	2505	3.7	6.1	1.0	11.1	1.1%
Ferndale HC	6345	2.7	4.6	4.0	37.3	2.5%
Ferrysburg City of	7106	4.0	6.3	0.6	12.8	-1.3%
Flat Rock City of	8212	3.4	8.0	0.9	6.5	-1.3%
Flint Chtr Twp of	2512	4.9	8.7	1.4	10.2	-1.8%
Flint City of	2530	7.3	24.5	0.2	3.2	-13.1%
Flint Pub Lib	2518	2.2	2.1	6.0	82.3	0.6%
Flushing Chtr Twp of	2515	7.0	11.9	0.7	10.2	-3.5%
Flushing City of	2502	10.3	22.2	0.3	7.7	-2.1%
Forsyth Twp	5212	3.9	7.8	1.1	7.7	0.9%
Fowler Vlg of	1904	2.2	3.1	3.0	34.3	2.7%
Fowlerville Dist Lib	4710	2.1	3.0	3.0	18.8	0.2%
Fowlerville Vlg of	4705	25.2	30.5	0.2	14.1	-3.4%
Frankenmuth City of	7306	5.5	8.8	1.1	11.6	-3.7%
Frankenmuth Wickson Dist Lib	7323	N/A	N/A	0.0	19.9	5.4%
Frankfort City of	1002	2.5	5.2	0.8	8.0	-2.7%
Franklin Vlg of	6323	5.4	10.9	0.9	8.6	-4.0%
Fraser City of	5003	7.1	15.0	0.5	7.6	-2.9%
Fremont Area Dist Lib	6209	3.2	5.0	1.0	13.3	-2.3%
Fremont City of	6203	4.5	8.6	0.9	10.2	-2.5%
Gaastra City of	3617	1.7	3.3	2.0	11.2	-0.8%
Garden City City of	8255	9.1	16.1	0.6	8.8	-5.0%
Gaylord City of	6903	4.9	9.0	0.9	9.0	-1.5%
Genesee Chtr Twp	2510	6.4	14.2	0.6	7.9	-2.8%
Genoa Twp	4713	1.6	2.1	N/A	N/A	6.8%
Gerald R Ford Intl Arpt Auth	4116	3.5	2.7	8.9	106.9	2.0%
Gladstone City of	2106	14.6	31.1	0.2	6.3	-0.6%
Gladwin City HC	2608	4.3	6.4	1.1	9.0	-4.0%
Gladwin City of	2605	4.0	5.2	4.0	62.9	3.3%
Gladwin Co	2602	4.0	6.5	1.0	12.0	-2.1%
Gladwin Co Dist Lib	2607	6.7	9.7	0.8	13.0	-4.8%
Gladwin CRC	2601	7.2	12.4	0.7	8.3	0.0%
Gogebic-Iron WWTR Auth	2703	5.3	8.6	1.2	15.4	-1.5%
Grand Beach Vlg of	1117	1.1	1.2	7.0	68.0	7.1%
Grand Blanc Chtr Twp	2511	4.6	7.6	2.1	16.4	2.3%
Grand Blanc City of	2513	8.1	9.3	1.0	14.8	-4.7%
Grand Haven City of	7010	7.1	10.1	0.9	13.2	-2.0%
Grand Ledge Area Dist. Library	2316	0.4	0.4	N/A	N/A	19.6%
Grand Ledge Area ESA	2310	2.5	3.3	2.5	31.1	1.0%
Grand Ledge City of	2312	3.6	5.9	1.8	10.8	0.7%
Grand Rapids HC	4108	13.4	19.9	0.2	10.7	1.7%
Grand Traverse Co	2803	15.9	33.2	0.2	6.4	-2.5%
Grand Traverse CRC	2802	83.1	94.0	0.0	8.7	3.7%
Grand Traverse Pavilions	2809	1.9	2.7	1.8	17.3	1.3%
Grandville City of	4102	13.5	25.4	0.2	6.7	-5.0%
Gratiot Co	2905	16.7	18.4	0.3	16.5	-4.8%
Gratiot CRC	2903	6.3	11.1	0.6	9.2	-0.6%
Grayling City of	2003	10.2	17.9	0.2	7.5	-2.7%
Green Oak Chtr Twp	4708	2.4	4.1	3.6	18.5	4.8%
Greenville City of	5906	3.9	6.0	1.4	12.1	-2.0%
Grosse Ile Twp	8207	6.3	11.4	1.0	11.9	-2.0%
Grosse Pointe Park City of	8201	5.0	9.8	0.7	8.2	-3.0%
Grosse Pointe-Clinton Ref CLD	5004	N/A	N/A	0.0	11.2	-7.9%
Groveland Twp	6335	5.0	4.2	1.5	31.6	-0.6%
Hackley Pub Lib	6114	0.8	0.9	N/A	N/A	11.6%
Hamburg Twp	4709	2.9	4.7	2.1	15.5	8.1%
Hamtramck City of	8205	8.4	21.4	0.4	4.9	-7.5%
Hamtramck HC	8250	2.9	4.1	3.3	62.1	5.3%
Hancock City of	3107	3.5	6.3	2.0	11.6	-2.6%
Harbor Beach City of	3201	5.3	8.2	1.1	13.0	-2.5%



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		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Harbor Springs Area Swg Auth	2406	2.5	3.2	2.3	22.1	0.3%
Harbor Springs City of	2405	2.4	4.1	2.3	12.4	-0.5%
Harper Woods City of	8260	5.9	15.1	0.5	4.9	-7.3%
Harrison City of	1803	5.7	8.6	0.8	10.2	-4.3%
Harrison Dist Lib	1807	N/A	N/A	0.0	10.1	-5.0%
Hartland Deerfield Fire Auth	4716	4.0	4.1	N/A	N/A	5.1%
Hastings City of	0801	3.2	7.0	0.8	6.4	-6.3%
Hazel Park City of	6336	5.4	12.8	0.6	5.7	-6.9%
Helen Newberry Joy Hosp	4805	14.3	22.2	0.2	8.7	-4.0%
Henika Dist Lib	0310	3.8	4.5	1.5	16.2	-5.5%
Herrick Dist Lib	7012	5.3	7.4	0.4	10.1	-4.5%
Hesperia Vlg of	6214	N/A	N/A	N/A	N/A	0.2%
Hiawatha Bhvrl Hlth	1707	22.2	31.6	0.1	11.3	-4.2%
Hillsdale City of	3001	5.2	7.2	0.8	11.6	-4.3%
Hillsdale Co	3005	2.8	5.0	1.6	9.6	1.1%
Hillsdale CRC	3004	4.0	6.4	0.9	10.4	5.7%
Hillsdale HC	3007	1.7	1.9	1.0	10.9	-4.7%
Hlth Source of Saginaw	7311	6.9	8.9	0.3	12.0	1.2%
Holland Area Cmnty Pool Auth	7014	2.5	3.0	1.3	34.6	1.4%
Holland City of	7001	10.3	12.0	0.4	13.9	11.6%
Holland Cmnty Hosp CLD	7006	N/A	N/A	0.0	8.2	-10.5%
Holly Vlg of	6317	4.6	10.4	0.7	6.8	-4.7%
Homer Vlg of	1304	3.7	4.7	0.9	15.6	-2.7%
Houghton City of	3109	2.5	3.2	5.6	38.1	3.6%
Houghton Co	3102	5.1	8.1	0.7	9.9	1.7%
Houghton CRC	3103	7.0	11.6	0.8	11.6	1.4%
Houghton Lake Pub Lib	7203	3.6	4.4	2.0	14.9	-3.5%
Howard City Vlg of	5902	16.3	23.2	0.2	9.1	-5.0%
Howard Twp	1106	1.9	2.8	2.0	26.1	1.9%
Howell Area Fire Auth	4714	3.6	4.3	3.0	18.8	-1.4%
Howell City of	4702	4.5	8.1	0.8	10.1	-0.9%
Howell-Carnegie Dist Lib	4707	2.6	3.4	3.0	24.3	-1.1%
Hudsonville City of	7004	N/A	N/A	0.0	9.0	-1.9%
Huntington Woods City of	6303	7.3	13.0	0.4	7.7	-2.1%
Hurley Med Ctr	2521	3.5	5.3	1.0	9.4	-5.4%
Huron Behavioral Health	3215	5.1	6.3	1.5	21.9	-1.0%
Huron Chtr Twp	8224	5.5	9.0	1.5	14.0	-0.7%
Huron Co	3204	4.5	7.1	1.1	11.5	-0.2%
Huron CRC	3202	6.3	9.1	1.1	12.3	2.6%
Imlay City City of	4404	4.0	6.7	0.7	9.5	-1.8%
Independence Twp	6328	3.8	5.9	2.1	14.6	0.0%
Indianfields Twp CLD	7905	N/A	N/A	0.0	13.5	-6.6%
Ingham Co	3303	4.1	7.0	0.9	9.8	-3.8%
Interurban Trans Auth	0308	3.6	5.0	1.8	10.3	-6.3%
Ionia City of	3403	3.5	7.7	0.8	9.1	0.8%
Ionia Cmnty Lib	3412	2.0	3.4	1.3	9.0	-5.0%
Ionia Co	3408	2.7	3.6	2.7	20.5	0.6%
Ionia CRC	3404	4.4	11.9	0.5	5.8	-0.9%
Ionia HC	3406	5.3	7.7	1.3	11.1	-1.8%
Iosco Co	3501	4.4	6.6	0.7	11.9	-3.2%
Iosco CRC	3502	9.3	13.6	0.4	9.5	-2.3%
Iron Co	3606	3.5	4.2	1.3	16.8	17.8%
Iron Co HC	3611	3.2	4.9	1.0	73.9	2.8%
Iron CRC	3602	4.7	11.8	0.5	5.6	2.2%
Iron Mountain City of	2201	3.9	12.0	0.4	4.0	-9.2%
Iron Mountain-Kingsford Swg	2205	3.5	5.6	2.5	29.7	2.4%
Iron River City of	3601	10.3	19.9	0.3	7.9	-7.1%
Ironwood City of	2706	5.0	10.5	0.5	6.6	-3.4%
Isabella Co	3703	10.2	14.1	0.4	13.1	-2.4%
Isabella Co Trans Comm	3709	3.3	4.3	2.3	14.8	-0.7%
Isabella CRC	3702	5.7	8.3	0.9	13.7	2.0%
Ishpeming Area Joint Wwtr Trtm	5207	5.8	6.1	1.2	20.0	3.5%
Ishpeming City of	5204	5.8	13.1	0.6	6.6	-5.7%
Ishpeming Twp	5216	4.9	6.0	1.1	13.6	-4.0%
Ithaca City of	2904	16.8	30.7	0.2	6.2	-0.8%
Jackson Dist Lib	3802	3.3	3.9	1.2	17.7	-2.9%
Jackson Trans Auth	3805	3.2	4.6	1.8	16.5	-1.9%
Jordan Valley Dist Lib	1507	3.6	4.2	1.0	53.1	8.9%
Jordan Valley EMS Auth	1509	1.8	2.7	3.0	20.1	3.7%
Kalamazoo Chtr Twp of	3907	5.2	7.4	2.1	16.9	-1.5%
Kalamazoo Lake Swr & Wtr Auth	0306	2.5	3.5	1.1	9.4	-3.4%
Kalamazoo Pub Lib	3903	2.0	2.5	5.2	36.4	2.6%



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Kalkaska Co	4003	4.2	6.4	1.1	10.5	-4.0%
Kalkaska CRC	4002	12.0	36.6	0.1	3.7	-11.7%
Kalkaska Pub Trans Auth	4004	6.1	7.8	0.7	12.7	-2.9%
Kalkaska Vlg of	4001	5.0	11.8	0.6	5.8	-7.2%
Keego Harbor City of	6322	5.0	11.5	0.4	6.5	-6.1%
Kent CRC	4111	N/A	N/A	0.0	5.2	11.9%
Keweenaw Co	4202	3.4	4.7	1.3	16.4	1.1%
Keweenaw CRC	4201	4.1	9.1	0.6	6.1	-2.9%
Kinde Vlg of	3209	6.2	6.2	1.0	14.7	-3.1%
Kingsford City of	2202	6.0	10.3	0.8	9.7	-4.6%
L.M.A.S. Dist Hlth Dept	4803	5.0	7.3	0.2	11.0	-6.1%
Lac Vieux Desert Band	8402	1.5	1.8	3.5	28.7	2.1%
Laingsburg City of	7608	2.6	3.4	2.5	21.1	-1.4%
Lake Co	4301	2.8	4.2	1.3	13.5	-1.0%
Lake CRC	4302	3.4	7.4	0.8	6.1	-4.1%
Lake Linden Vlg of	3105	2.9	6.6	0.4	5.9	-7.5%
Lake Odessa Vlg of	3402	2.9	3.7	1.0	13.6	-1.4%
Lake Orion Vlg of	6318	10.7	16.5	0.3	8.8	-3.4%
Lakeland Lib Coop	4106	3.0	3.5	2.0	22.4	-0.8%
Lakeshore Coordinating Council CLD	7007	N/A	N/A	0.0	10.8	-8.1%
Lakeview Cemetery	2407	1.6	1.8	N/A	N/A	7.5%
L'Anse Vlg of	0705	3.1	7.2	0.9	6.9	-3.6%
Lansing Chtr Twp	3320	3.0	3.8	3.5	18.2	-1.0%
Lansing HC	3311	7.3	8.8	0.6	10.7	-6.0%
Lapeer City of	4401	4.4	6.8	1.1	13.9	1.0%
Lapeer Co	4403	3.3	4.3	1.8	16.8	-1.2%
Lapeer CRC	4402	4.3	7.3	0.9	9.8	3.7%
Lapeer Dist Lib	4410	3.9	6.5	1.1	7.9	-4.2%
Lathrup Vlg City of	6311	12.4	17.3	0.3	9.6	-6.5%
Laurium Vlg of	3104	3.5	6.3	0.9	13.1	1.2%
Lawrence Vlg of	8004	N/A	N/A	0.0	7.6	-5.7%
Leelanau Co	4501	4.1	5.1	1.3	15.4	-0.3%
Leelanau CRC	4503	7.9	9.9	0.5	14.4	3.8%
Leoni Twp	3804	15.5	23.4	0.3	9.2	-2.3%
Leslie City of	3313	3.4	5.5	1.1	10.7	-3.2%
Leslie Twp	3319	3.8	4.9	1.5	66.8	1.6%
Lexington Vlg of	7708	6.7	12.2	0.6	9.4	-4.6%
Lima Twp	8112	4.1	4.2	1.5	14.8	-4.0%
Lincoln Park City of	8244	3.1	14.3	0.4	2.4	4.5%
Litchfield City of	3006	3.0	5.0	1.5	11.3	-0.9%
Livingston Co	4703	3.8	5.3	1.3	15.2	7.7%
Livingston Co CMH Auth	4712	4.4	5.6	1.2	17.1	-2.4%
Livingston CRC	4701	4.5	6.3	1.0	12.7	-2.0%
Looking Glass Rgnl Fire CLD	2311	N/A	N/A	0.0	21.4	-4.3%
Loutit Dist Lib	7013	3.4	4.6	2.4	25.1	0.7%
Lowell City of	4104	3.9	6.9	0.9	9.8	-2.0%
Luce Co	4804	4.6	8.9	0.7	10.1	-1.2%
Luce Co Amb Svs	4806	2.0	2.4	N/A	N/A	8.1%
Luce CRC	4801	5.2	14.6	0.5	4.9	-1.7%
Ludington City of	5302	5.5	9.1	0.8	9.1	-4.3%
Luna Pier City of	5802	21.4	52.5	0.1	5.4	-8.1%
Lyons Vlg of	3411	N/A	N/A	0.0	8.6	-9.8%
Mackinac Co	4901	13.2	20.0	0.3	11.4	-1.8%
Mackinac Co HC	4905	13.4	17.8	0.5	11.0	-6.8%
Mackinac CRC	4903	10.4	21.0	0.3	7.3	1.9%
Mackinac Straits Hlth Sys	4902	1.7	2.5	2.1	15.3	4.0%
Mackinaw City Vlg of	1606	2.9	4.0	6.0	39.7	3.7%
Madison Chtr Twp of	4605	1.4	2.2	2.3	16.9	2.9%
Madison Heights City of	6308	16.1	17.6	0.3	13.6	-5.7%
Manistee City of	5105	5.3	7.3	0.9	11.6	-4.4%
Manistee Co	5101	4.0	6.1	1.0	11.6	-2.0%
Manistee CRC	5103	5.9	10.0	0.7	9.2	-3.4%
Manistee HC	5107	1.7	2.0	2.0	18.0	-0.2%
Manistique City of	7504	4.6	11.0	0.7	7.3	-3.3%
Manlius Twp	0311	8.0	11.2	1.3	11.1	-5.9%
Manton City of	8304	3.7	11.3	0.4	3.6	-8.6%
Marenisco Twp	2704	2.4	3.7	1.5	13.3	-1.5%
Marine City City of CLD	7704	N/A	N/A	0.0	12.3	-7.2%
Marion Vlg of	6704	3.1	4.5	0.7	10.7	-4.4%
Marlette City of	7405	3.0	4.9	2.5	11.4	-2.8%
Marquette Brd of Light & Power	5209	8.9	13.4	0.3	8.7	4.3%
Marquette Chtr Twp	5215	2.0	2.8	3.7	43.6	4.3%



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Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Marquette City of	5201	6.0	10.6	0.9	10.9	-1.1%
Marquette Co	5202	6.9	10.7	0.8	9.9	-3.9%
Marquette Co Solid Waste Mgmt	5213	2.6	2.9	3.0	29.7	0.9%
Marquette Co Trans Auth	5206	3.1	3.8	1.1	12.4	-4.7%
Marquette CRC	5211	4.3	10.0	0.7	7.2	0.0%
Marshall Area Firefighters Amb	1313	1.7	1.7	N/A	49.7	5.4%
Marshall City of	1306	7.2	12.6	0.5	8.6	-5.1%
Marshall Dist Lib	1309	N/A	N/A	0.0	1.3	-34.5%
Mason City of	3304	5.3	8.7	1.2	11.1	-2.5%
Mason Co	5301	7.5	11.3	0.5	12.4	-1.3%
Mason Co Dist Lib	5303	5.7	8.3	0.9	11.6	-4.6%
Mason CRC	5305	2.9	4.7	1.5	13.8	-0.5%
Mason-Oceana 911	6403	3.5	4.5	2.3	26.8	3.5%
MBS Intl Arpt	0902	4.9	9.3	1.2	9.5	-2.4%
Meceola Central Dispatch	5405	3.5	4.6	1.5	19.9	-0.5%
Mecosta Co	5403	18.7	20.7	0.3	16.2	-3.0%
Mecosta Co General Hosp CLD	5404	N/A	N/A	0.0	13.2	-6.7%
Mecosta CRC	5401	4.9	6.4	0.7	10.8	-1.5%
Melvindale City of	8215	16.1	45.5	0.1	4.6	-6.5%
Melvindale HC	8220	5.2	7.6	0.7	9.7	-5.1%
Menominee City of	5501	5.0	7.5	0.6	13.1	-3.9%
Menominee Co	5502	5.2	8.4	0.6	13.4	-1.8%
Menominee CRC	5503	11.3	18.3	0.4	11.1	1.1%
Meridian Chtr Twp	3315	6.1	10.6	1.2	11.8	2.4%
MERS	2308	3.1	3.1	2.9	38.5	6.6%
Metamora Twp	4409	3.8	4.5	1.3	22.5	-1.3%
Metro Police Auth of Genesee Co	2532	4.7	5.5	1.6	19.8	-2.0%
Mich Muni Risk Mgmt Auth	8237	5.2	5.2	N/A	N/A	2.3%
Mich S Central Power Agcy	3002	24.6	26.5	0.1	15.0	-2.6%
Middleville Vlg of	0803	4.0	5.7	0.6	12.0	-3.2%
Midland City of	5601	8.8	16.8	0.4	7.0	-3.8%
Midland Co Central Disp Auth	5604	3.0	4.6	2.8	29.3	2.1%
Midland CRC	5602	5.8	8.7	0.7	9.0	0.9%
Mid-Mich Dist Hlth Dept	5901	2.9	3.9	1.2	15.0	-2.0%
Mid-Mich Lib League	8306	9.2	11.6	0.3	10.7	-6.9%
Mid-Peninsula Lib Coop CLD	3609	N/A	N/A	0.0	1.8	-34.7%
Milan City of	5801	10.1	22.2	0.2	6.5	-2.7%
Milan Lib	5806	2.5	4.3	1.0	7.7	2.2%
Milford Vlg of	6313	6.8	9.8	0.8	13.1	-1.9%
Millington Vlg of	7904	5.3	5.7	0.9	12.5	-5.5%
Missaukee Co	5702	3.3	4.9	1.7	15.1	0.7%
MOA Solid Waste Mgmt Auth	6002	3.6	4.5	3.0	18.3	-1.8%
Monroe HC	5808	2.5	5.6	1.7	7.1	-4.2%
Montague City of	6112	4.4	6.6	0.8	11.9	3.8%
Montcalm Co	5907	5.9	8.0	0.7	14.2	-0.8%
Montcalm CRC	5905	3.7	7.7	1.0	7.8	-2.2%
Montmorency Co	6001	3.4	6.9	0.7	7.8	-2.7%
Montrose City of	2509	3.3	5.6	0.6	8.5	2.7%
Mt. Morris Chtr Twp	2503	7.7	15.9	0.7	9.1	-2.5%
Mt. Pleasant City of	3701	4.8	7.9	0.9	10.5	-3.4%
Muir Vlg of	3405	N/A	N/A	0.0	12.4	-2.5%
Mundy Chtr Twp of	2517	4.8	5.5	1.8	18.3	-2.9%
Munising City of	0202	5.7	10.2	0.7	10.4	-3.9%
Muskegon Area Dist Lib	6117	2.1	2.7	2.8	23.8	4.2%
Muskegon Chtr Twp	6108	9.1	14.4	0.6	13.2	-2.6%
Muskegon City of	6116	12.7	17.6	0.3	11.1	-4.4%
Muskegon Co	6103	9.0	11.4	0.4	10.9	21.9%
Muskegon CRC	6101	4.9	6.8	0.8	10.4	0.9%
Muskegon HC	6113	2.3	3.2	3.0	13.1	-1.5%
Muskegon Heights City of	6102	6.9	12.7	0.6	7.2	-7.0%
Muskegon Heights HC	6115	2.4	4.0	2.0	19.1	1.1%
N Houghton Co Wtr&Swg Auth	3106	3.1	4.5	3.0	20.1	-1.0%
N Muskegon City of	6104	11.5	16.6	0.3	12.5	-3.8%
Nashville Vlg of	0807	1.4	1.6	N/A	N/A	5.5%
Negaunee City of	5203	5.4	11.2	0.6	6.9	-6.0%
Negaunee Twp	5217	2.1	2.5	2.3	16.4	1.3%
Network180	4109	10.1	12.0	0.7	18.7	-2.0%
New Baltimore City of	5016	4.3	5.7	1.4	17.5	-2.0%
New Buffalo City of	1113	2.0	2.4	3.0	16.0	0.4%
New Buffalo Twp	1121	0.8	0.9	11.0	441.7	8.7%
Newaygo CMH	6207	N/A	N/A	0.0	11.7	-7.6%
Newaygo Co	6201	28.0	37.4	0.1	9.7	-3.5%



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		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
Newaygo CRC	6212	3.9	5.3	0.9	12.3	-1.7%
Newaygo MCF	6204	4.5	5.0	0.7	13.8	-4.8%
Newaygo Soil & Wtr Cnsrvn Dist	6205	1.3	1.4	1.0	9.8	-4.4%
Newberry Vlg of	4802	3.9	7.0	0.6	7.5	-6.6%
Niles City of	1115	4.9	6.8	0.8	10.2	-5.7%
Niles Dist Lib	1105	2.1	2.7	1.7	15.5	-1.6%
Northern Lakes CMH Auth	2808	28.3	37.4	0.1	8.6	-6.1%
Northfield Twp	8117	3.5	4.0	N/A	N/A	9.6%
Northpointe Bhvrl Hlth Sys	2207	4.5	5.6	0.9	14.6	-3.3%
Northville Chtr Twp	8230	5.2	5.6	2.5	23.3	22.9%
Northville City of	8208	28.1	46.9	0.1	7.8	2.5%
Northville Dist Lib	8229	3.1	4.4	1.1	12.8	-0.2%
Norton Shores City of	6106	3.7	8.1	0.8	7.9	-0.1%
Norway City of	2204	6.6	17.0	0.5	6.8	-3.7%
Nottawaseppi Huron Band	8403	0.6	0.7	19.0	167.0	19.7%
Novi City of	6320	5.8	9.8	0.7	10.2	-1.7%
NW Mich Cmnty Hlth Agcy	1502	14.4	19.8	0.1	10.1	-1.8%
NW Rgnl Arpt Comm	2805	5.1	6.2	1.1	15.0	-0.7%
Oceana Co	6402	4.9	7.0	0.7	13.2	-1.1%
Oceola Twp	4717	3.2	3.7	3.0	32.9	2.6%
Ogemaw Co	6502	11.9	17.8	0.4	12.2	-2.9%
Ogemaw Co EMS Auth	6508	2.7	3.7	2.6	25.2	2.2%
Ogemaw CRC	6503	4.5	8.4	0.8	7.7	1.6%
Olive Twp	7009	5.1	8.6	0.5	9.9	-4.6%
Onaway City of	7105	5.4	6.8	1.0	17.5	7.2%
Ontonagon Co	6602	4.2	6.7	0.9	12.6	-2.7%
Ontonagon Co Economic Dev Corp	6605	N/A	N/A	0.0	4.2	-6.6%
Ontonagon CRC	6604	5.6	12.6	0.6	7.5	3.0%
Ontonagon Vlg of	6603	17.0	33.9	0.1	5.6	-8.7%
Orchard Lake City of	6312	22.6	32.0	0.1	9.1	-1.4%
Oronoko Chtr Twp	1114	2.5	4.3	1.4	11.6	-2.0%
Osceola Co	6701	3.4	4.5	1.3	20.6	-0.2%
Osceola CRC	6703	3.8	7.6	0.6	6.8	-3.6%
Oscoda Chtr Twp	3503	4.4	7.9	0.8	9.2	-3.6%
Oscoda Co	6801	3.3	5.3	0.9	10.8	-2.1%
Oscoda Co Lib	6803	3.5	2.9	N/A	N/A	0.4%
Oscoda Wurtsmith Arpt Auth I	6802	1.6	2.4	1.7	15.8	-0.6%
Otisville Vlg of	2506	5.5	8.6	0.6	10.6	-4.1%
Otsego Co	6902	3.0	5.1	1.0	10.3	-1.4%
Otsego CRC	6901	4.5	8.0	0.6	8.8	4.5%
Ottawa Co	7003	6.9	9.5	0.8	16.1	-2.2%
Ottawa Co Central Disp Auth	7008	10.9	13.4	0.3	11.4	-3.5%
Ottawa CRC	7002	6.3	11.5	0.6	7.6	-3.3%
Otter Lake Vlg of	4408	N/A	N/A	0.0	7.2	-9.6%
Owosso City of	7607	6.9	12.2	0.4	7.4	-6.5%
Oxford Fire Department	6327	3.0	4.9	0.9	12.0	6.3%
Oxford Vlg of	6326	4.7	8.1	1.3	13.5	-0.6%
Parchment City of	3901	14.3	25.0	0.2	7.5	-7.5%
Pathways(Spr.Bhvl.Mntl.Hlth)	5214	19.3	44.0	0.1	5.3	-6.0%
Paw Paw Lk Reg Jnt Swg Disp Bd	1103	7.9	10.9	1.5	34.7	1.0%
Paw Paw Vlg of	8002	4.0	5.9	1.2	10.9	-2.8%
Pellston Vlg of	2404	4.7	6.5	3.0	26.5	-0.4%
Pennfield Chtr Twp	1312	2.9	4.5	2.1	19.4	1.6%
Pentwater Vlg of	6401	3.3	4.8	0.6	11.1	-2.7%
Perrinton Vlg of	2909	2.3	2.8	N/A	N/A	5.3%
Petersburg City of	5807	2.5	2.6	N/A	N/A	3.9%
Petoskey City of	2402	5.0	6.7	0.8	13.2	0.7%
Pewamo Vlg of	3407	3.1	4.1	N/A	N/A	4.1%
Pigeon Vlg of	3203	2.7	4.4	1.3	10.6	-1.3%
Pinckney Vlg of	4706	4.7	6.1	2.4	17.4	-0.4%
Pinconning City of	0904	6.9	13.5	0.3	5.8	-9.2%
Pittsfield Chtr Twp	8110	3.2	4.8	2.1	19.7	1.8%
Pleasant Ridge City of	6301	4.8	10.0	0.6	7.4	-3.6%
Plymouth Chtr Twp of	8238	6.3	9.8	1.1	12.1	2.3%
Plymouth City of	8202	N/A	N/A	0.0	5.3	-6.4%
Plymouth Dist Lib	8221	4.1	5.9	1.1	10.7	-4.4%
Pokagon Band of Potawatomi	8401	1.4	1.6	10.5	64.8	11.7%
Port Austin Area Swr&Wtr Auth	3210	N/A	N/A	0.0	17.8	-5.1%
Port Austin Vlg of	3208	3.5	5.2	0.7	9.5	-4.9%
Port Huron Chtr Twp	7711	2.5	4.0	1.6	12.9	-1.0%
Port Huron City of	7702	5.5	11.0	0.6	6.6	-6.8%
Port Huron HC	7712	5.0	8.2	1.1	9.8	6.3%



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Port Sanilac Vlg of	7403	5.1	9.3	1.0	10.9	-1.5%
Port Sheldon Twp	7018	5.0	5.4	2.3	18.9	-3.8%
Portland City of	3401	4.0	6.9	0.8	9.8	-3.2%
Potterville City of	2313	2.1	3.2	3.0	10.8	-1.5%
Presque Isle Co	7104	3.4	5.8	1.0	9.8	-3.6%
Presque Isle CRC	7101	4.1	8.7	0.6	6.1	-3.2%
PRIDE Youth Programs CLD	6210	N/A	N/A	0.0	6.9	-12.1%
Ravenna Vlg of	6111	4.8	5.4	2.0	26.3	-0.4%
Reading City of	3003	2.2	2.8	1.0	22.4	-0.9%
Redford Chtr Twp of	8209	5.9	11.4	0.5	6.9	-6.4%
Redford Twp Dist Lib	8228	6.2	8.0	0.9	16.4	-2.8%
Reed City City of	6702	5.1	8.8	0.7	10.9	-2.8%
Richfield Twp (Genesee Co)	2514	4.0	7.6	1.6	10.5	-0.8%
Richfield Twp (Roscommon Co)	7202	4.5	7.4	0.9	11.4	-0.2%
Richland Twp	7310	6.5	13.5	1.3	7.3	-6.3%
Richmond City of	5012	3.8	5.9	2.5	17.6	-1.2%
Rochester City of	6307	5.1	8.4	0.7	9.9	-2.9%
Rockford City of	4103	3.2	5.4	1.0	12.0	-0.3%
Rockwood City of	5810	3.4	4.1	1.6	20.9	-2.0%
Rockwood HC	8267	0.0	0.1	N/A	N/A	N/A
Rogers City City of	7102	4.8	11.1	0.8	6.6	-6.2%
Romeo Dist Lib	5006	14.1	18.7	0.2	10.5	-4.7%
Romeo Vlg of	5005	4.3	7.7	0.9	10.8	-3.5%
Romulus City of	8225	4.8	12.9	1.0	6.1	-2.4%
Roosevelt Park City of	6107	7.0	13.9	0.3	9.2	-3.3%
Roscommon Co	7201	5.6	8.3	0.6	11.8	-2.8%
Roscommon Co Trans Auth	7205	3.8	5.2	1.1	11.2	-2.3%
Rose City City of	6504	3.9	5.2	1.0	12.1	-3.5%
Rose Twp	6506	8.1	3.9	1.7	47.7	-2.0%
Royal Oak Chtr Twp of	6306	52.3	34.7	0.1	18.4	-4.9%
Saginaw Chtr Twp	7314	6.9	7.9	1.3	14.7	-2.9%
Saginaw City of	7301	13.0	28.0	0.3	5.5	-7.5%
Saginaw Co	7303	100.0	136.0	0.0	8.6	-8.2%
Saginaw Co 911 Com Ctr	7316	124.5	193.6	0.0	8.4	-2.3%
Saginaw Co CMH	7318	27.1	48.5	0.1	6.7	-8.8%
Saginaw CRC	7304	5.3	8.7	0.7	9.4	-4.8%
Saginaw HC	7321	9.8	21.3	0.5	7.2	-3.0%
Saginaw Pub Lib of	7317	4.6	3.5	1.7	49.6	-0.4%
Saginaw Trans Sys Auth	7319	2.6	2.7	1.6	17.6	-1.2%
Saginaw-Midland Muni Wtr Corp	7305	18.5	29.9	0.2	8.7	-0.4%
Saline City of	8105	5.9	10.0	0.5	9.8	-1.7%
Sandusky City of	7402	3.1	6.0	1.3	7.9	-0.9%
Sandusky Dist Lib	7404	4.8	5.2	1.0	53.0	0.3%
Sanilac CRC	7410	2.7	3.5	3.2	18.3	-1.2%
Saranac HC	3413	3.3	5.3	2.0	15.8	6.6%
Saugatuck City of	0307	3.2	4.0	0.7	10.0	-0.7%
Saugatuck Twp	0305	3.1	7.6	0.5	6.3	2.8%
Saugatuck Twp Fire Dist	0313	1.4	2.0	5.0	11.3	-0.1%
Sault Ste. Marie City of	1701	5.0	8.2	0.8	9.3	-5.3%
Sault Ste. Marie HC	4906	5.6	6.3	1.8	12.2	-5.7%
Sault Ste. Marie Tribe of Chippewa Indians	8404	0.4	0.4	24.0	109.1	98.2%
SCCMUA	1905	5.2	6.6	1.0	16.7	-1.8%
Schoolcraft Co	7503	4.0	7.0	1.1	9.4	-4.1%
Schoolcraft Co Trans Auth	7506	2.5	5.1	2.3	14.2	1.6%
Schoolcraft CRC	7501	6.7	15.7	0.4	5.7	-3.6%
Schoolcraft Memorial Hosp	7505	18.4	24.6	0.3	12.4	-2.3%
Scio Twp	8116	1.9	2.4	5.5	78.7	3.6%
Scottville City of	5308	2.7	3.5	3.0	34.4	0.6%
SE Oakland Co Rsrc Rec Auth	6310	3.2	5.3	0.6	8.6	0.0%
SE Oakland Co Wtr Auth	6309	9.1	10.4	0.6	13.6	3.4%
Sebewaing Vlg of	3205	6.8	7.1	0.8	14.2	5.2%
SEMCOG	8210	5.8	7.6	1.0	14.7	-2.5%
Shepherd Vlg of	3704	2.3	2.5	3.0	49.8	1.4%
Shiawassee Co	7602	3.9	6.3	1.3	9.7	-3.5%
Shiawassee Council on Aging	7605	2.5	4.0	0.8	5.9	-7.5%
Shiawassee CRC	7601	8.4	11.4	0.7	11.1	-1.3%
Shiawassee Dist Lib	7606	5.0	5.4	2.3	28.1	-1.3%
Shiawassee Hlth & Wellness	7609	2.2	3.0	1.8	17.4	-0.9%
Sims Whitney Util Auth	0606	2.5	3.5	0.7	9.8	-0.4%
SMART	8216	4.1	5.9	0.9	11.4	-2.9%
South Haven Area ESA	8005	4.9	7.8	2.5	21.2	2.5%
South Haven City of	8001	4.4	5.9	1.0	13.8	-2.4%



Municipal Employees' Retirement System of Michigan - As of December 31, 2018

Results by Municipality

Appendix D: Plan Maturity Measures

Municipality Name	Number	Ratio of				
		Market Value of Assets to Total Payroll	Actuarial Accrued Liability to Total Payroll	Actives to Retires and Beneficiaries	Market Value of Assets to Benefit Payments	Net Cash Flow to Market Value of Assets
South Lyon City of	6315	4.2	6.7	1.2	16.5	-0.4%
Southgate City of	8262	8.2	13.7	0.5	8.1	-5.5%
Sparta Vlg of	4107	4.0	5.9	1.5	14.0	-0.9%
Spring Lake Dist Lib	7016	6.6	6.8	3.0	32.6	0.4%
Spring Lake Vlg of	7015	9.8	15.0	0.9	13.0	-2.0%
Springfield City of	1303	9.0	14.1	0.4	8.2	-3.2%
St Charles Vlg of	7308	5.4	9.6	0.8	9.3	2.2%
St Clair City of	7703	8.1	16.4	0.5	8.4	-4.8%
St Clair HC	7715	N/A	N/A	0.0	3.7	-12.8%
St Clair Shores HC	5007	2.9	5.9	0.8	6.1	-5.9%
St Ignace City of	4904	5.0	9.6	0.9	8.5	-5.2%
St Johns City of	1902	11.3	23.4	0.2	6.4	0.8%
St Joseph Co	7803	4.6	5.6	1.2	16.0	-3.0%
St Joseph Twp	1122	2.9	3.1	N/A	N/A	N/A
St Louis City of	2902	21.5	28.6	0.1	9.3	-2.9%
St Louis HC	2908	6.4	7.7	3.0	42.7	0.3%
Stambaugh Twp	3615	2.2	3.8	1.0	19.2	2.0%
Standish City of	0601	44.3	69.0	0.1	7.7	0.0%
Stanton City of CLD	5903	N/A	N/A	0.0	17.2	-5.3%
Stephenson City of	5504	3.0	5.4	1.5	33.8	5.6%
Sterling Vlg of	0605	6.9	5.3	1.0	65.3	-0.8%
Stockbridge Vlg of	3316	5.0	8.0	0.8	17.5	0.7%
Sturgis HC	7805	1.4	1.5	N/A	N/A	6.3%
Summit Twp	3803	4.4	7.9	1.2	12.2	0.0%
Sumpter Twp	8226	3.8	5.2	2.2	19.5	4.3%
Superior Chtr Twp	8109	2.8	4.5	2.0	12.2	-1.2%
Superior Dist Lib	1702	3.2	2.4	2.2	23.6	-2.8%
Superiorland Lib Coop	5208	N/A	N/A	0.0	8.8	-0.6%
Suttons Bay Bingham Fire Auth	4506	1.3	2.2	10.0	35.8	11.2%
SW Mich Comm Amb Svcs	1119	2.3	3.0	6.7	21.7	3.1%
SW Shiawassee ESA	7611	2.1	2.5	5.0	58.1	5.2%
Swan Creek Twp	7309	3.8	5.5	0.7	6.3	-8.0%
Swartz Creek City of	2504	55.2	63.0	0.1	11.4	-6.7%
Sylvan Lake City of	6314	6.8	8.0	0.7	18.5	22.5%
Tawas Police Auth	3504	9.6	20.3	0.3	7.5	-4.9%
Taylor HC	8231	2.9	3.3	2.0	24.5	0.4%
The Lib Network	8218	4.5	6.4	1.1	15.2	-1.1%
Three Rivers City of	7801	3.7	5.9	1.1	11.2	-3.3%
Tittabawassee Twp	7322	4.0	4.5	3.0	25.8	1.2%
Traverse Area Dist Lib	2807	4.0	5.1	1.0	12.3	-2.6%
Traverse City City of	2801	3.6	6.4	0.8	8.3	-5.6%
Traverse City Light & Power	2811	6.9	11.8	0.6	9.2	2.0%
Trenton City of	8203	32.3	58.9	0.1	7.3	-1.2%
Tri-County Aging Consortium	3307	2.5	3.0	1.5	16.7	-1.9%
Trio Council on Aging Inc CLD	6507	N/A	N/A	0.0	12.4	-7.1%
Tuscarora Twp	1604	3.1	4.9	2.3	19.5	0.9%
Tuscola Co	7902	5.5	6.3	0.9	15.3	-4.0%
Tuscola Co CMH	7907	3.0	3.5	1.6	19.0	0.1%
Tuscola Co Hlth Dpt	7901	8.9	10.9	0.6	15.4	-4.5%
Tuscola Co MCF	7906	1.3	1.5	3.6	16.8	-0.1%
Tuscola CRC	7908	4.2	6.1	0.9	10.6	2.5%
Twin City Pub Safety Auth CLD	3610	N/A	N/A	0.0	16.8	-5.4%
Ubley Vlg of	3212	7.5	11.5	1.0	15.8	-2.2%
Utica City of	5008	3.4	6.1	1.1	9.9	-2.8%
Van Buren Co	8006	2.0	3.2	2.4	13.2	0.4%
Van Buren Dist Lib	8007	4.1	5.1	1.6	14.9	2.7%
Van Buren Twp	8236	3.8	5.6	4.1	24.2	1.7%
Vassar City of	7903	14.0	25.8	0.2	7.6	-6.9%
Vevay Twp	3318	2.3	4.6	0.7	5.5	-5.8%
Vicksburg Dist Lib	3904	N/A	N/A	0.0	6.7	-2.5%
Vicksburg Vlg of	3902	7.0	10.8	0.5	11.1	-3.9%
Vienna Chtr Twp of	2522	5.5	10.1	0.5	7.6	-5.8%
W Iron Co Swr Auth	3612	3.4	8.2	0.8	6.0	-5.6%
W Mich CMH Sys	5304	58.6	76.8	0.1	11.6	-5.8%
W Mich Shoreline Rgnl Dev Comm	6110	7.1	7.0	1.2	15.5	-4.4%
W UP Dist Hlth Dept	3101	12.3	20.9	0.2	8.1	-4.4%
Wakefield City of	2701	4.0	8.4	0.6	5.7	-3.6%
Walker City of	4112	9.0	14.6	0.4	10.1	3.9%
Walled Lake City of	6324	3.3	11.1	0.7	5.2	1.7%
Washtenaw Co	8113	3.9	5.8	3.1	23.0	2.1%
Washtenaw CRC	8102	4.9	9.7	0.9	9.1	-1.9%
Wayland City of	0304	5.0	7.9	0.8	11.7	-2.4%



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Wayne City of	8242	15.5	28.9	0.3	7.8	-4.7%
Wayne HC	8252	4.0	6.1	1.5	8.7	-3.8%
Webberville Vlg of	3314	2.0	2.2	2.0	17.6	2.3%
West Branch City of	6505	4.0	6.8	0.9	9.3	-4.8%
West Branch Dist Lib	6509	4.8	5.3	3.0	11.7	-4.4%
WestlandCity of	8211	9.3	24.3	0.3	5.7	-3.9%
Westphalia Vlg of	1907	6.3	9.6	0.3	14.3	-2.7%
Wexford Co	8302	3.6	5.8	1.1	10.7	0.4%
Wexford CRC	8303	10.5	12.3	0.6	17.6	11.4%
White Cloud City of	6206	2.3	3.8	0.8	8.5	4.9%
White Cloud Cmnty Lib	6208	3.0	3.7	4.0	35.0	-0.3%
White Cloud/Sherman Util	6211	2.0	3.5	1.5	11.6	-1.5%
White Lake Chtr Twp	6325	4.1	6.2	1.7	13.9	-1.2%
White Pigeon Vlg of	7804	1.6	2.0	1.5	16.4	2.5%
White Pine Dist Lib	5904	5.0	10.0	0.2	5.4	-5.7%
Whitehall City of	6105	3.2	4.9	0.8	10.8	-2.1%
Willard Pub Lib	1308	1.8	2.3	5.1	36.0	3.1%
Williamston City of	3310	4.1	6.2	0.7	10.2	-2.6%
Wixom City of	6316	18.4	20.6	0.4	17.3	71.2%
Wolverine Lake Vlg of	6329	3.2	5.6	1.0	10.8	3.9%
WUPPDR	3108	5.6	7.4	1.3	8.8	-7.5%
Ypsilanti City of	8101	8.9	7.5	0.8	19.9	-3.9%
Ypsilanti Cmnty Util Auth	8106	4.4	8.1	0.9	9.1	0.0%
Ypsilanti HC	8115	4.7	6.2	0.5	9.6	-6.6%
Ypsilanti Twp of	8104	3.9	5.8	1.2	12.6	-1.8%
Totals- MERS		4.9	8.0	0.8	10.0	-1.0%



**Appendix E: Plan Provisions: Actuarial Assumptions and Methods (on MERS website:
Appendix)**